



406-T

609-T

811-T

JIB REEFING - OWNER'S MANUAL

GB

ENROULEUR DE FOC - NOTICE D'UTILISATION

F

ROLLREFFANLAGE - AUFBLASBARE RETTUNGSWESTEN

D

ROLREEFSYSTEEM - GEBRUIKERSHANDLEIDING

NL

ENROLLADOR - GUIA DE UTILIZACION

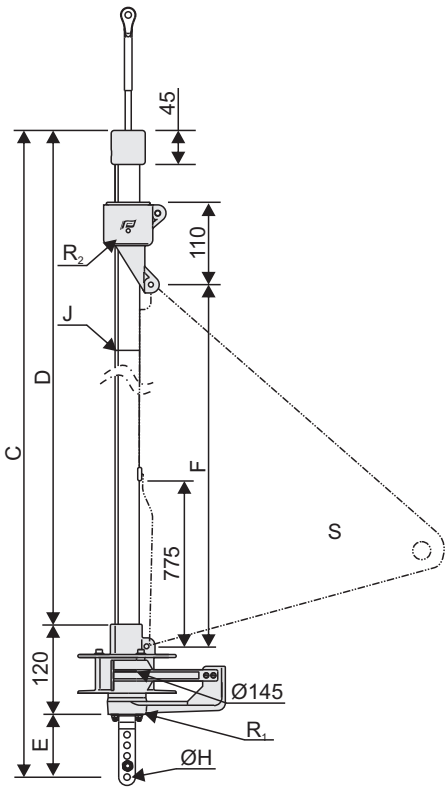
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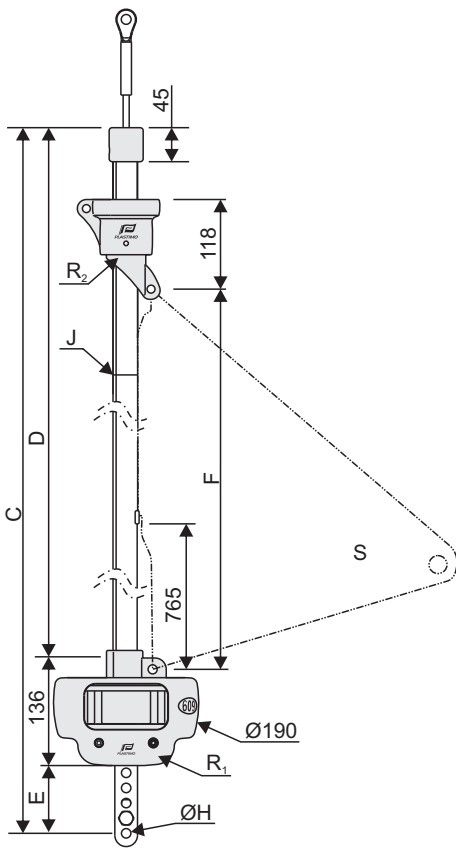
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AVVOLGITORE - MANUALE D'USO

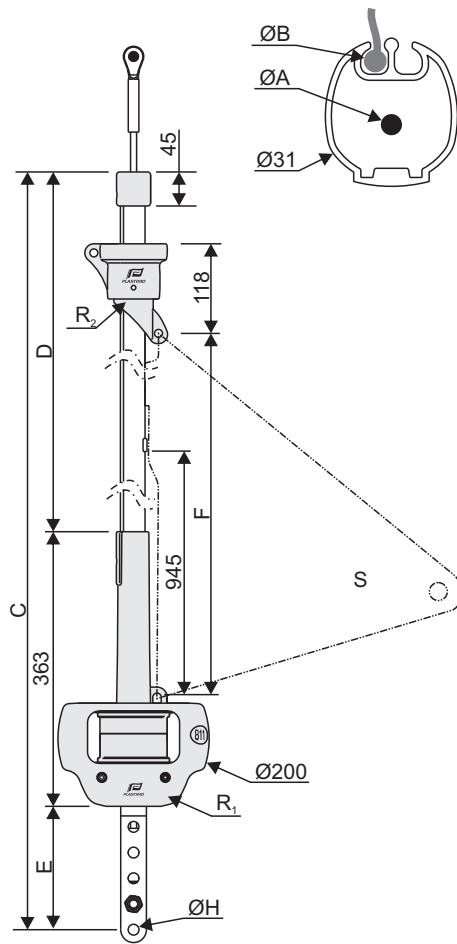
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406-T



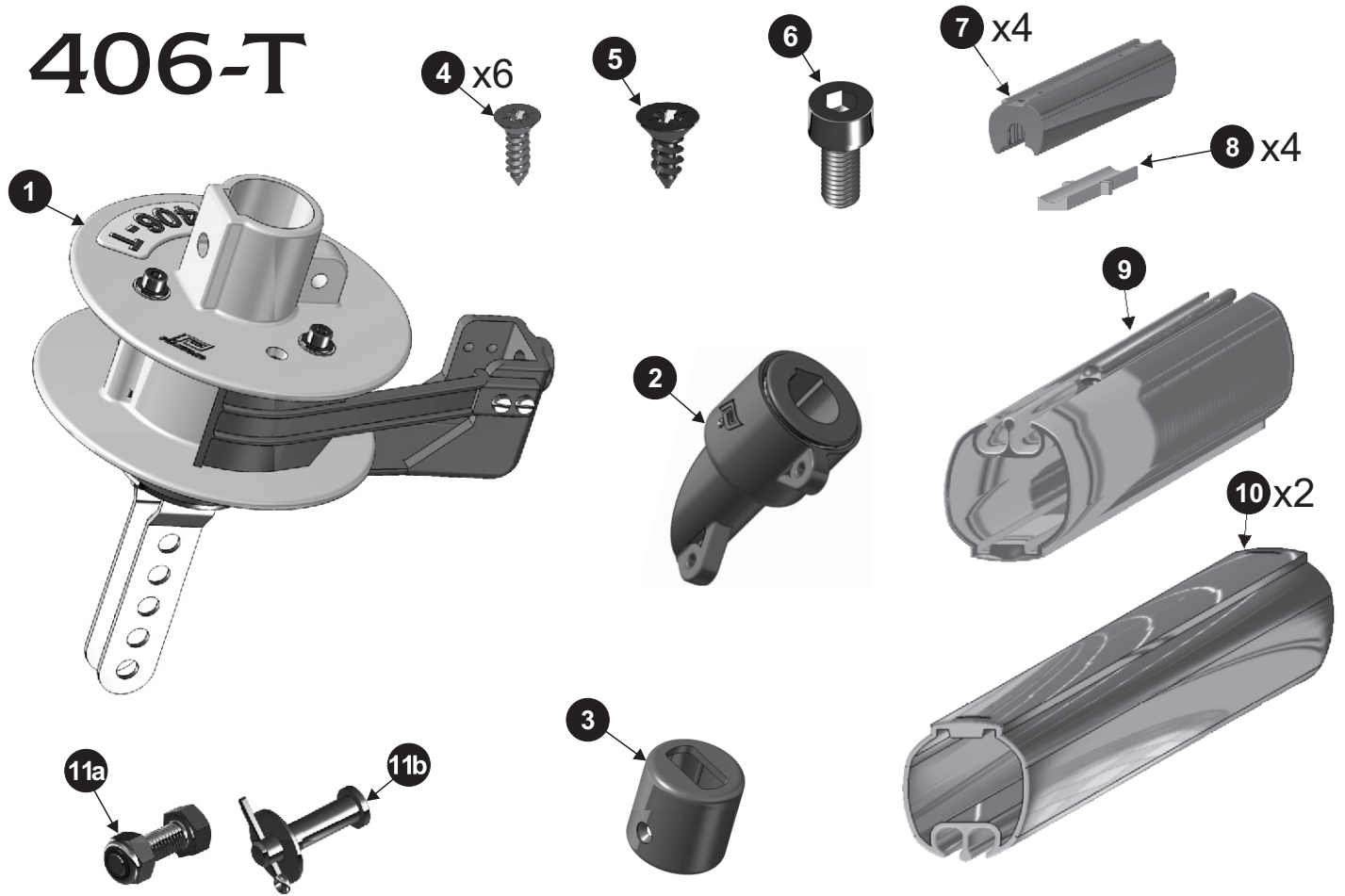
609-T



811-T

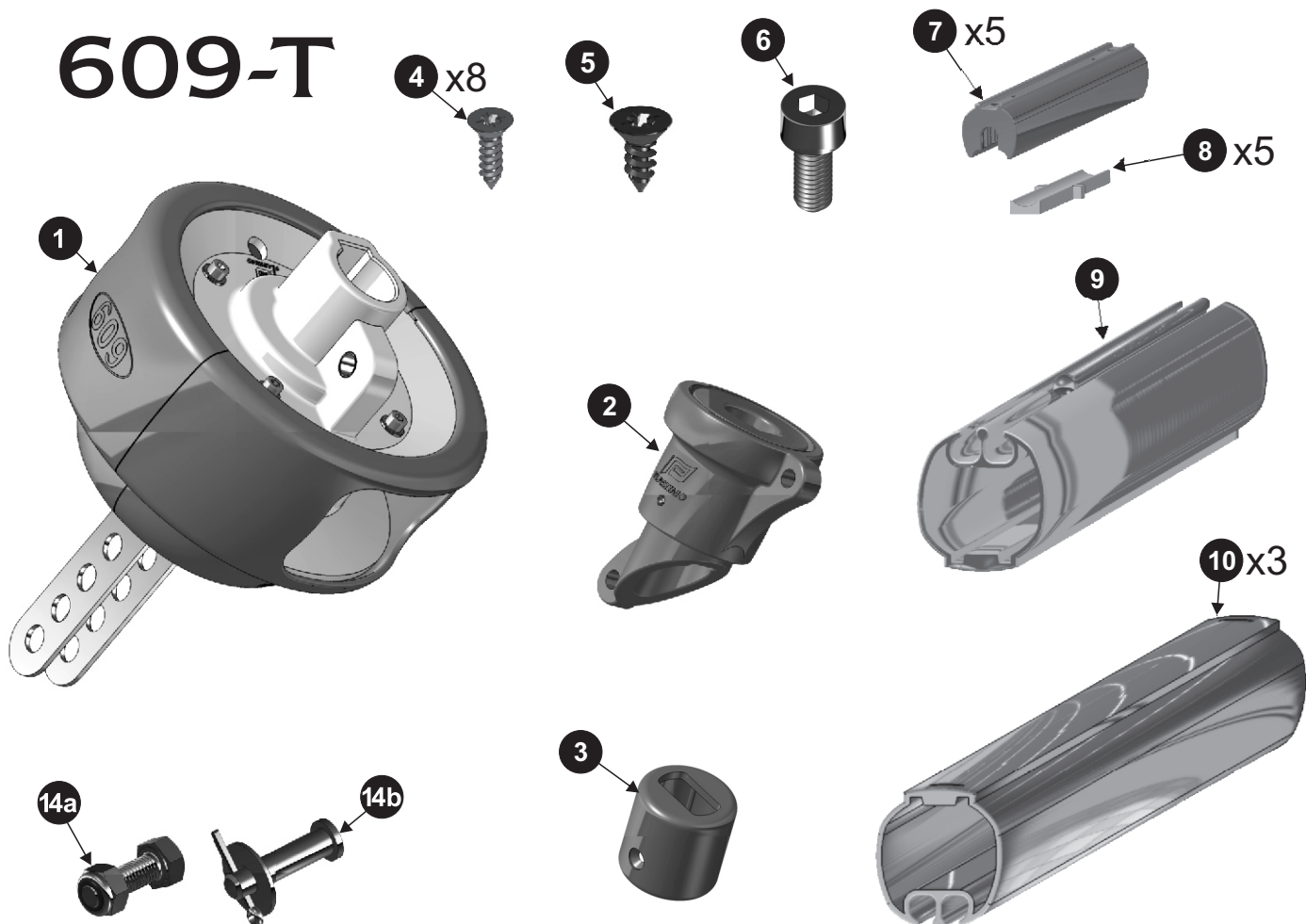
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811-T	58209		58209		58209		58209		58209		58209	58209		
ØA	forestay : Ø4-7mm		étai : Ø4-7mm		Vorstag : Ø4-7mm		voorstag : Ø4-7mm		estay : Ø4-7mm		Förstags : Ø4-7mm		Strallo : Ø4-7mm	
ØB	luffrope : Ø5mm		ralingue : Ø5mm		Vorliek : Ø5mm		voorlijk : Ø5mm		relinga : Ø5mm		Lik : Ø5mm		ralinga : Ø5mm	
C	406-T	6.60m	6.68m	6.60m	6.68m	6.60m	6.68m	6.60m	6.68m	6.60m	6.68m	6.68m	6.60m	6.68m
	609-T	8.79m	8.96m	8.79m	8.96m	8.79m	8.96m	8.79m	8.96m	8.79m	8.96m	8.96m	8.79m	8.96m
	811-T	11.26m		11.26m		11.26m		11.26m		11.26m		11.26m		
D	406-T	6.35m		6.35m		6.35m		6.35m		6.35m		6.35m		
	609-T	8.50m		8.50m		8.50m		8.50m		8.50m		8.50m		
	811-T	10.44m		10.44m		10.44m		10.44m		10.44m		10.44m		
E	406-T	65mm	150mm	65mm	150mm	65mm	150mm	65mm	150mm	65mm	150mm	150mm	65mm	150mm
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	811-T	220mm		220mm		220mm		220mm		220mm		220mm		
F	406-T	6.22m		6.22m		6.22m		6.22m		6.22m		6.22m		
	609-T	8.36m		8.36m		8.36m		8.36m		8.36m		8.36m		
	811-T	10.70m		10.70m		10.70m		10.70m		10.70m		10.70m		
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	609-T	12.5mm		12.5mm		12.5mm		12.5mm		12.5mm		12.5mm		
	811-T	14.3mm		14.3mm		14.3mm		14.3mm		14.3mm		14.3mm		
J	406-T													
	609-T	coupling units : Delrin + screws		jonctions Delrin + vis		Verbindungen Delrin + Schrauben		koppelstuk Delrin + schroeven		Empalmes Delrin + tornillos		Kopplingar Delrin + skruv		
	811-T											Giunzione Delrin + vite		
R ₁	406-T	bearing: Delrin		roulement Delrin		Kugellager Delrin		lagering Delrin		Rodamientos Delrin		Kullager Delrin		
	609-T	bearing: Delrin,inox		roulement Delrin,inox		Kugellager Delrin,inox		lagering Delrin,RVS		Rod. Delrin,inox		Kulla. Delrin,rostfritt		
	811-T	bearing: Delrin, Torlon		roulement Delrin, Torlon		Kugellager Delrin, Torlon		lagering Delrin, Torlon		Rod. Delrin, Torlon		Kulla. Delrin, Torlon		
R ₂	406-T	bearing: Delrin		roulement Delrin		Kugellager Delrin		lagering Delrin		Rodamientos Delrin		Kullager Delrin		
	609-T	bearing: Delrin, Torlon		roulement Delrin, Torlon		Kugellager Delrin, Torlon		lagering Delrin, Torlon		Rodamientos Delrin, Torlon		Kullager Delrin, Torlon		
	811-T													
S	406-T	12m ²		12m ²		12m ²		12m ²		12m ²		12m ²		
	609-T	25m ²		25m ²		25m ²		25m ²		25m ²		25m ²		
	811-T	35m ²		35m ²		35m ²		35m ²		35m ²		35m ²		

406-T



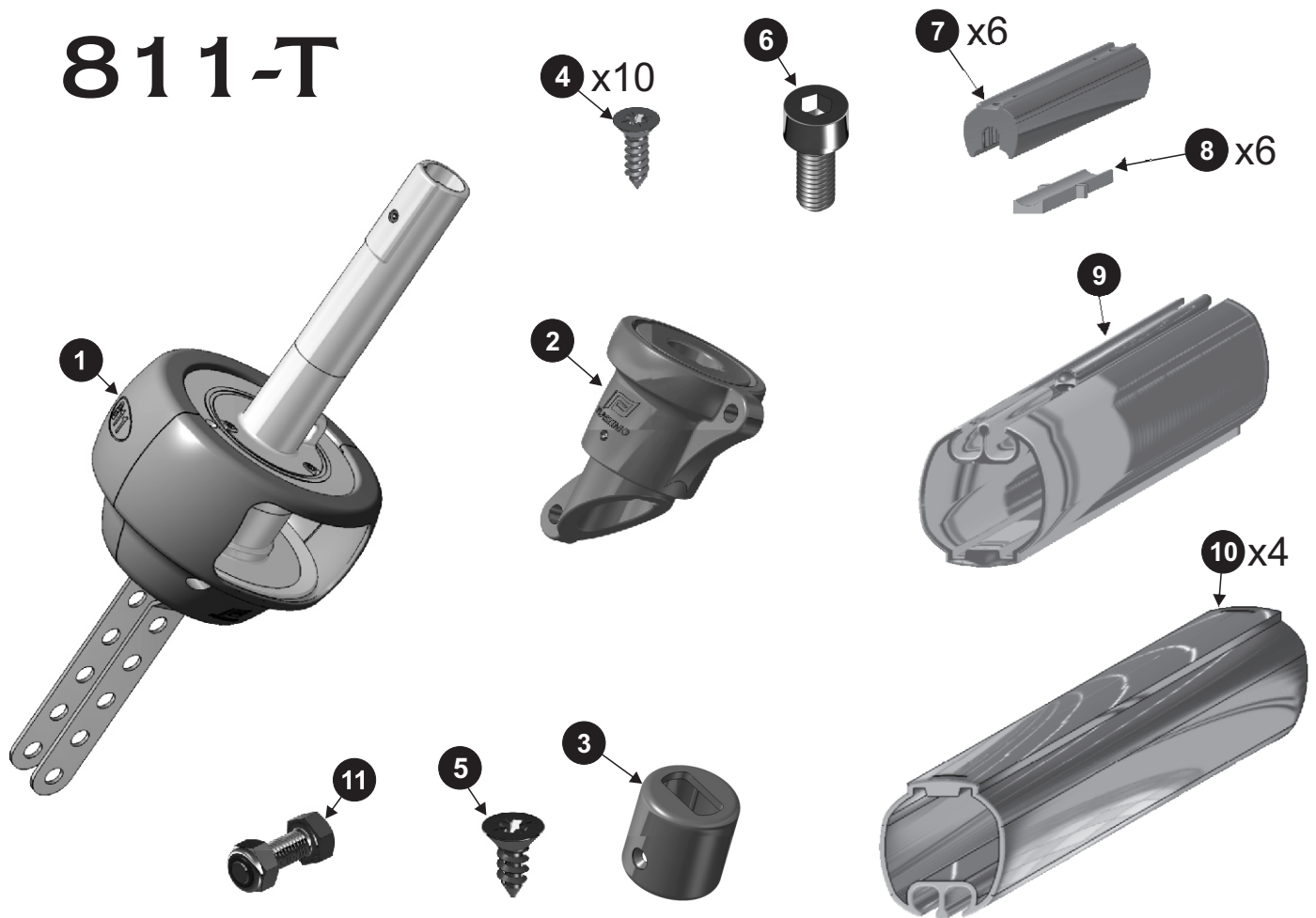
	GB	F	D	NL	E	S	I
1	1 drum unit	1 ensemble tambour	1 Trommel	1 roltrommel	1 conjunto tambor	1 Trumma med revlinematrare	1 insieme tamburo
2	1 halyard swivel	1 émerillon	1 Fallwirbel	1 valwartel	1 giratorio	1 Fallsvirvel	1 mulinello
3	1 top end stop	1 embout profil	1 Profilansatzstück	1 top eind stuk	1 terminal tope	1 Toppdel	1 Terminale profilato
4	6 screws Ø3.9x12.7 (spar connections)	6 vis tôle Ø3.9x12.7 liaison profils	6 Schraube Ø3.9x12.7 (Verbindung der Profile)	6 bouten Ø3.9x12.7 (koppelstukken)	6 Tornillos Ø3.9x12.7 (unión perfiles)	6 insex Ø3.9x12.7 (profilkopplingarna)	6 vite Ø3.9x12.7 (collegamento profilati)
5	1 screw Ø4.8x12.7 (top end stop)	1 vis tôle TF Ø4.8x12.7 fixation embout profil	1 Schraube Ø4.8x12.7 (Profilansatzstück)	1 schroef Ø4.8x12.7 (top eind stuk)	1 tornillo Ø4.8x12.7 (terminal tope)	1 spårskruv Ø4.8x12.7 (Toppdel)	1 vite lamiera Ø4.8x12.7 (terminale profilato)
6	1 screw M5x12 (base spar)	1 vis Chc M5x12 fixation profil bas	1 Schraube M5x12 (unteres Profil)	1 schroef M5x12 (basisprofiel)	1 tornillo M5x12 (perfil bajo)	1 insex M5x12 (Bottenprofil)	1 vite a brugola M5x12 (profilato basso)
7	4 Coupling sleeves	4 pièces de jonction	4 Verbindungsstücke	4 koppelstukken	4 piezas de uniones	4 Skarvstycken	4 Pezzi di giunzione
8	4 Connecting stops	4 guides étai	4 Vorstagführung	4 Verbinsstopper	4 Guía estay	4 Låsplattor till skarvstycken	4 Guide di strallo
9	1 base spar	1 profil aluminium bas	1 unteres Profil	1 basisprofiel	1 perfil bajo	1 Bottenprofil	1 profilato basso
10	2 Intermediate spars	2 profils aluminium intermédiaires	2 Zwischenprofile	2 standaardprofielen	2 Perfiles intermedios	2 Standard profiler	2 Profilati intermedi
11a	1 screw+nut M8x35 =>chainplate	1 vis+écrou M8x35 modèle lattes	1 Schraube M8x35 Terminalmontage	1 bunten M8x35 stevenplaatuitvoering	1 tornillo M8x35 (placas)	1 insex M8x35	1 Vite M8x35 Modello Landre
11b	1 Shouldered clevis pin Ø8 (=>turnbuckle)	1 axe épaulé Ø8 modèle ridoir	1 Bolzen, dick Ø8 Stagspannermontage	1 pen Ø8 spanschroefuitvoering	1 Bulón Ø8 (tensor)	1 Riggbult Ø8	1 Asse a testa Ø8 Modello arridatoi

609-T



	GB	F	D	NL	E	S	I
1	1 drum unit	1 ensemble tambour	1 Trommel	1 roltrommel	1 conjunto tambor	1 Trumma med revlinematare	1 insieme tamburo
2	1 halyard swivel	1 émerillon	1 Fallwirbel	1 valwartel	1 giratorio	1 Fallsvirvel	1 mulinello
3	1 top end stop	1 embout profil	1 Profilansatzstück	1 top eind stuk	1 terminal tope	1 Toppdel	1 Terminale profilato
4	8 screws Ø3.9x12.7 (spar connections)	8 vis tôle Ø3.9x12.7 liaison profils	8 Schraube Ø3.9x12.7 (Verbindung der Profile)	8 bouten Ø3.9x12.7 (koppelstukken)	8 Tornillos Ø3.9x12.7 (unión perfiles)	8 insex Ø3.9x12.7 (profilkopplingarna)	8 vite Ø3.9x12.7 (collegamento profilati)
5	1 screw Ø4.8x12.7 (top end stop)	1 vis tôle TF Ø4.8x12.7 fixation embout profil	1 Schraube Ø4.8x12.7 (Profilansatzstück)	1 schroef Ø4.8x12.7 (top eind stuk)	1 tornillo Ø4.8x12.7 (terminal tope)	1 spårskruv Ø4.8x12.7 (Toppdel)	1 vite lamiera Ø4.8x12.7 (terminale profilato)
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7	5 Coupling sleeves	5 pièces de jonction	5 Verbindungsstücke	5 koppelstukken	5 piezas de uniones	5 Skarvstycken	5 Pezzi di giunzione
8	5 Connecting stops	5 guides étai	5 Vorstagführung	5 Verbinsstopper	5 Guía estay	5 Låsplattor till skarvstycken	5 Guide di strallo
9	1 base spar	1 profil aluminium bas	1 unteres Profil	1 basisprofiel	1 perfil bajo	1 Bottenprofil	1 profilato basso
10	3 Intermediate spars	3 profils aluminium intermédiaires	3 Zwischenprofile	3 standaardprofielen	3 Perfiles intermedios	3 Standard profiler	3 Profilati intermedi
11a	1 screw+nut M12x35 =>chainplate	1 vis+écrou M12x35 modèle lattes	1 Schraube M12x35 Terminalmontage	1 bunt M12x35 stevenplaatuitvoering	1 tornillo M12x35 (placas)	1 insex M12x35	1 Vite M12x35 Modello Landre
11b	1 Shouldered clevis pin Ø12 (=>turnbuckle)	1 axe épaulé Ø12 modèle ridoir	1 Bolzen, dick Ø12 Stagspannermontage	1 pen Ø12 spanschroefuitvoering	1 Bulón Ø12 (tensor)	1 Riggbult Ø12	1 Asse a testa Ø12 Modello arridatoi

811-T



	GB	F	D	NL	E	S	I
1	1 drum unit	1 ensemble tambour	1 Trommel	1 roltrommel	1 conjunto tambor	1 Trumma med revlinematåre	1 insieme tamburo
2	1 halyard swivel	1 émerillon	1 Fallwirbel	1 valwartel	1 giratorio	1 Fallsvirvel	1 mulinello
3	1 top end stop	1 embout profil	1 Profilansatzstück	1 top eind stuk	1 terminal tope	1 Toppdel	1 Terminale profilato
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9	1 base spar	1 profil aluminium bas	1 unteres Profil	1 basisprofiel	1 perfil bajo	1 Bottenprofil	1 profilato basso
10	3 Intermediate spars	3 profils aluminium intermédiaires	3 Zwischenprofile	3 standaardprofielen	3 Perfiles intermedios	3 Standard profiler	3 Profilati intermedi
11	1 screw+nut M14x40	1 vis+écrou M14x40	1 Schraube M14x40	1 buntel M14x40	1 tornillo M14x40	1 insex M14x40	1 Vite M14x40

ASSEMBLY INSTRUCTIONS FOR T-SERIES 406-T 609-T 811-T

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GB

3/ TOOLS NEEDED

Tools needed :

- Hammer
- Pliers
- Comfortable bosun's chair (Plastimo).
- Allen key (4)
- Electric or hand drill
- 1 Ø4.2 mm drill
- Hacksaw
- Tape measure
- Screwdriver
- Silicone filler.

4/ FLAT ASSEMBLY

- This method consists of fully dismantling the forestay and assembling the jib reefing system while the forestay is lying flat.
- We recommend this method as it is faster.
- In certain cases the top part of the forestay cannot be dismantled, in this case::
 - do an in situ assembly (see page 10)
 - contact a professional who can install a universal joint on the upper part of the forestay.

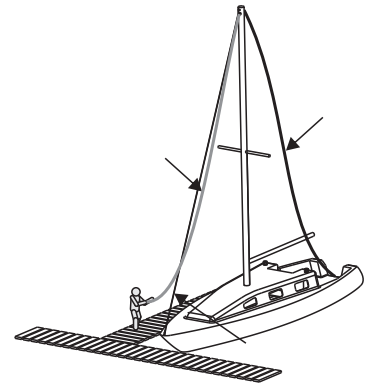
4.1 - Dismantling the forestay

4.1.1 - Lower part

- Slacken the backstay
- Secure the mast forward with 1 or 2 halyards
- Tighten the halyards to relieve the strain on the forestay
- Dismantle the lower part of the forestay (this usually consists of removing a rigging screw pin, or a screw and a nut).

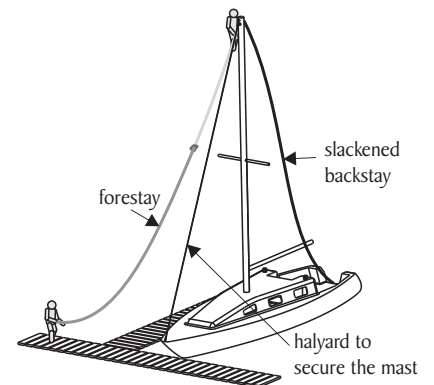
Note : it is important to measure the distance between the forestay eye and the hole of the forward mounting plate in order to find the correct adjustments again.

For a turnbuckle assembly, measure the distance between the mounting plate and the blocking nut of the turnbuckle.



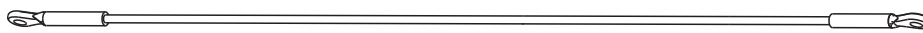
4.1.2 - Upper part

- Send a person to the masthead (equipped with hammer and pliers)
- Dismount the upper part of the forestay
- Bring the person and the forestay down from the masthead

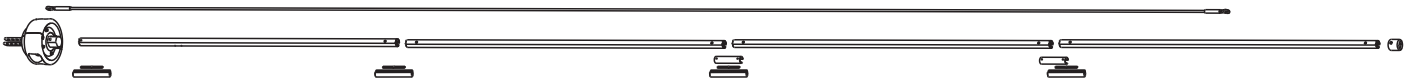


4.2 - ASSEMBLING THE JIB REEFING SYSTEM

- Lay the forestay flat



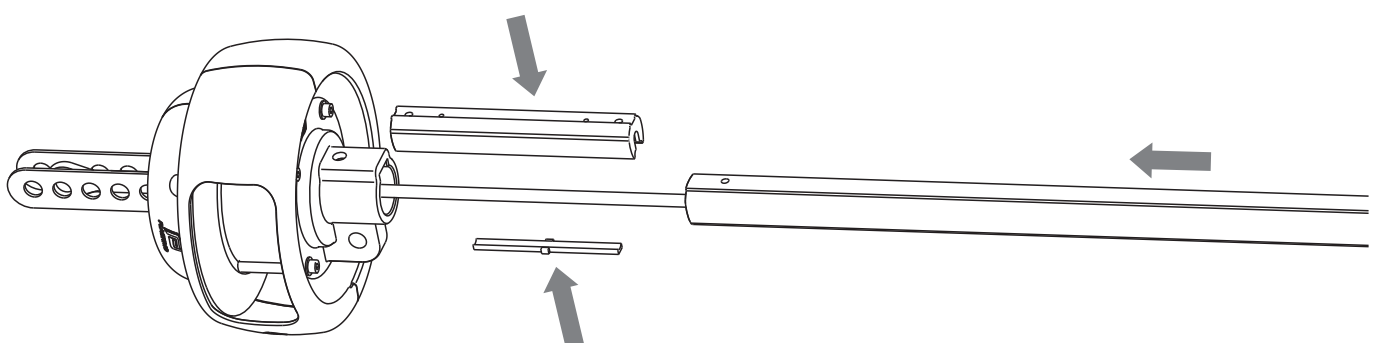
- Place the parts to be assembled alongside the forestay



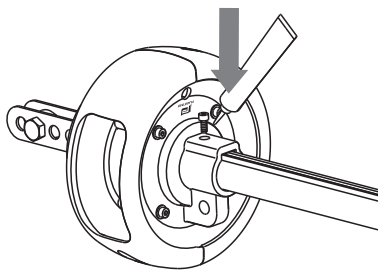
- Assemble the drum unit on the forestay and put the rigging screw pin or screw and nut in place (select the chainplate hole that corresponds to the initial forestay adjustment).



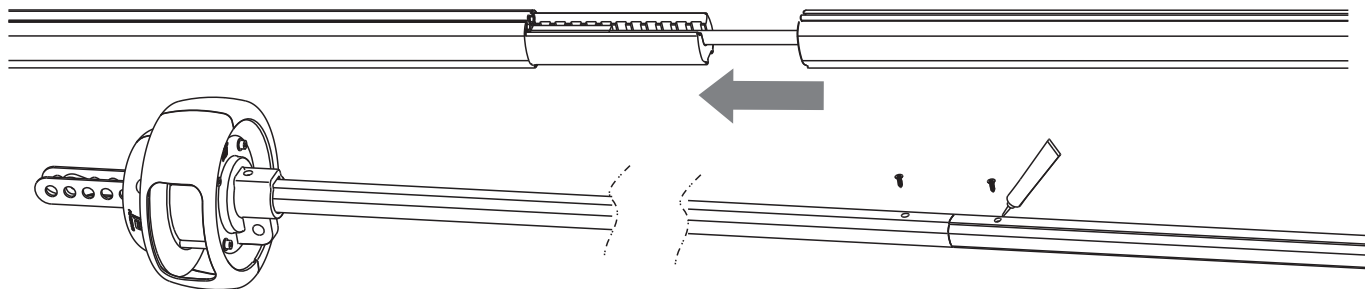
- Slide the base spar onto the forestay
- Slide a coupling sleeve and connecting stop onto the forestay (ensure that the hole in the coupling sleeve is in line with the pre-drilled hole of the base spar)



- Slide the base spar into the drum unit until the two holes are in line, insert the M5x12 screw (after putting some silicone filler in the hole in order to reduce the stainless steel / aluminium electrolytic couple) and tighten.



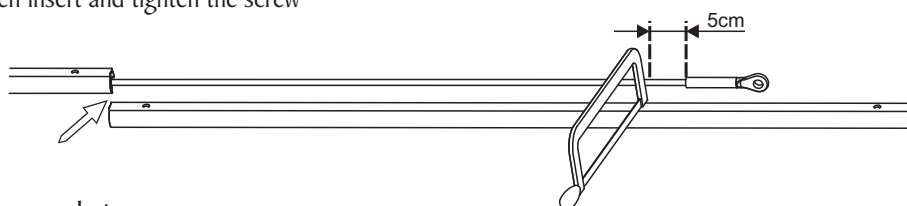
- Put another coupling unit (sleeve and stop) into position
- Insert a screw (Ø3.9x12.7); do not forget to put some silicone filler into the hole beforehand
- Put another aluminium spar into position
- Repeat the process until only one spar is left



GB

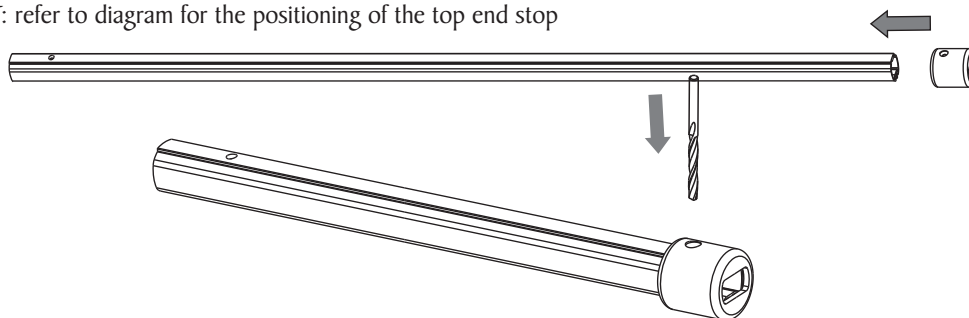
4.3 - Positioning the last spar

- Position the last spar so that it lies flush against the previous spar but do not install it
- Measure a distance of 5 cm back from the sleeve of the forestay
- Mark and cut the spar with a hacksaw
- Put a coupling unit into position (sleeve and stop)
- Insert the spar, then insert and tighten the screw

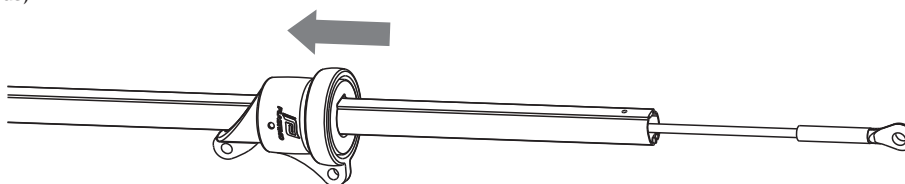


4.4 - Installing the top end stop

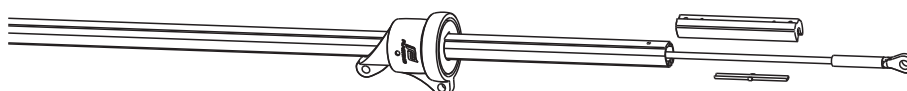
- Slot the top end stop over the aluminium spar
- Drill a hole (with a Ø4.2 mm drill)
- IMPORTANT: refer to diagram for the positioning of the top end stop



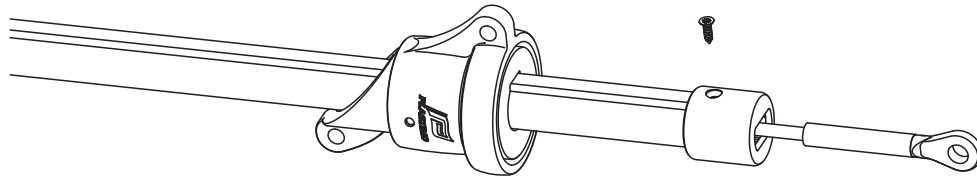
- Before putting the screw into position, do not forget to slide the halyard swivel into place (ensure that the conical end of the halyard swivel faces downwards)



- Insert a coupling unit (sleeve and stop)
- Ensure that the hole in the coupling unit is in line with the hole you have just drilled



- Put the top end stop back into position
- Put some silicone filler into the hole
- Insert and tighten screw (Ø4.8x12.7)



- Your jib reefing system is now assembled and can be put into position (hoist it up to the masthead with a halyard)



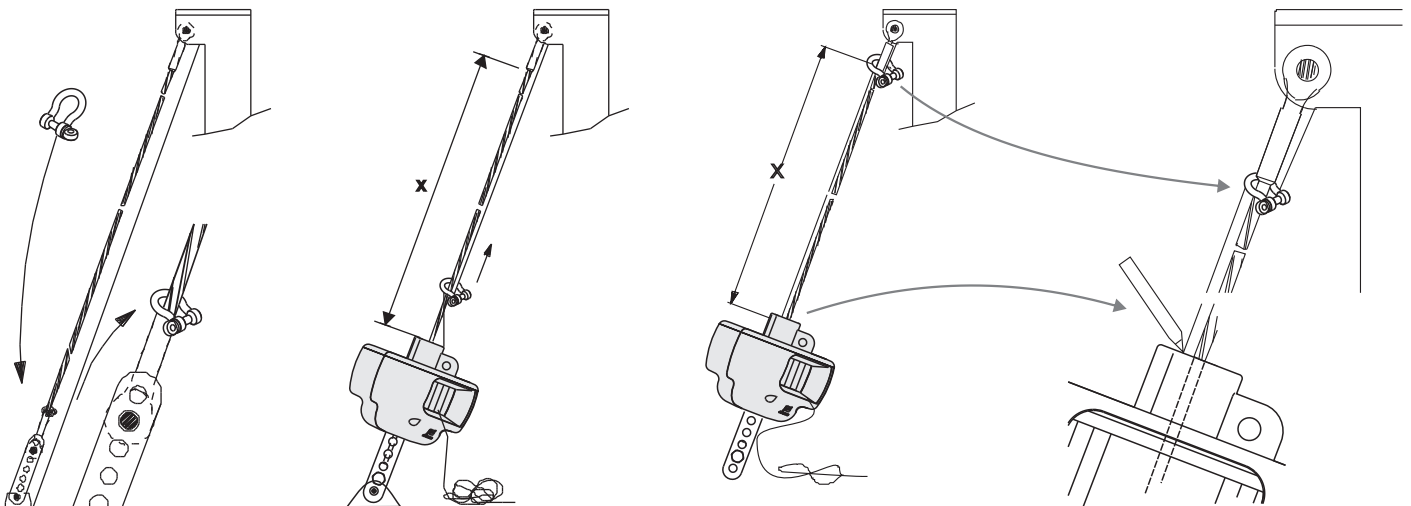
5/ IN SITU ASSEMBLY

- this method of assembly may be carried out by one person
- it is not necessary to dismantle anything at the masthead

5.1 - MEASURING THE LENGTH OF THE FORESTAY

In order for this jib reefing system to be perfectly adapted to your boat the length « X » needs to be known.

- Slide a small shackle around the forestay
- Ensure that it lies flush against the sleeve
- Slacken the backstay
- Secure the mast with a halyard
- Dismount the lower part of the forestay
- Assemble the drum unit
- Reassemble the lower part of the forestay
- Undo the halyard and tighten the backstay
- Attach a halyard to the shackle
- Attach a length of rope (or a tape measure) to the shackle
- Hoist the shackle until it touches the top sleeve of the forestay
- Mark the piece of rope level with the top of the drum unit
- Lower the shackle



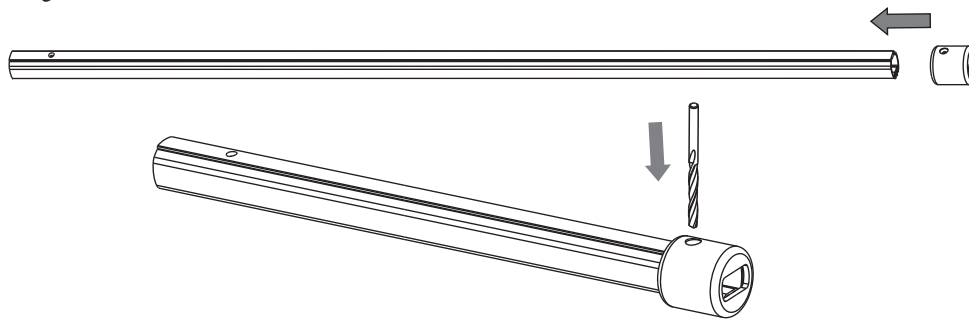
5.2 - CUTTING THE LAST SPAR

- Stretch out flat the piece of rope used to measure the length of the forestay
- Lay the aluminium spars parallel to the piece of rope (take note of base spar, see page 7)
- Mark the spar level with the mark on the piece of rope
- Cut the spar 3 cm (safety margin) below the mark



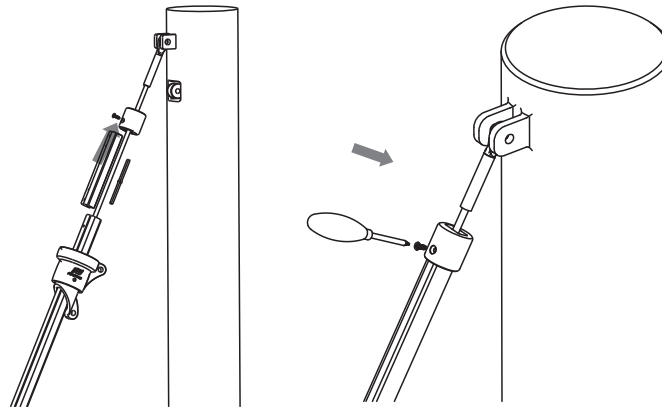
5.3 - ASSEMBLING THE TOP END STOP

- The top end stop should be assembled on the aluminium spar that has just been cut.
 - Slide the top end stop fully over the end of the spar
 - (IMPORTANT: refer to diagram below for positioning of the hole in the top end stop)
 - Drill a hole using a $\text{Ø}4.2$ mm drill

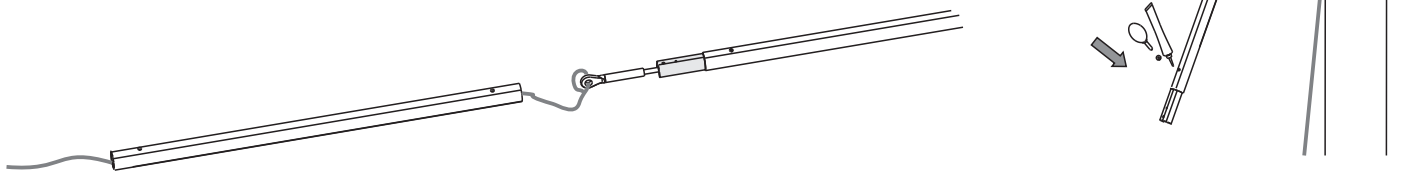


5.4 - ASSEMBLING THE SPARS

- Dismount the forestay from the stemhead fitting
- Install the following on the forestay:
 - Top end stop
 - The spar that you have cut and drilled
 - Coupling unit (sleeve and stop); ensure that the hole in the coupling unit is in line with the hole in the spar
 - a $\text{Ø}4.8 \times 12.7$ screw
 - Halyard swivel (IMPORTANT: see drawing below for position of halyard swivel)

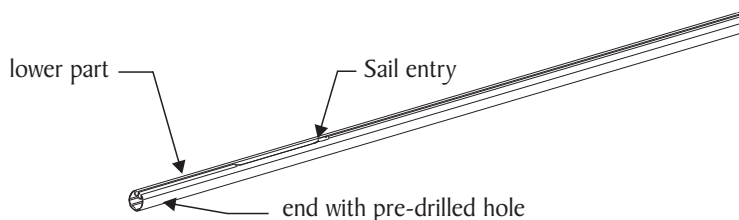


- Attach a halyard to the halyard swivel in order to support the spars as they are assembled
- Insert a coupling unit (sleeve and stop)
- Put some silicone filler into the holes before tightening the screws (in order to reduce the electrolytic couple between the stainless steel screw and the aluminium)
- Insert a screw ($\text{Ø}3.9 \times 12.7$)
- Wipe away any excess silicone with a cloth
- Slide another aluminium spar into position
 - IMPORTANT: keep the base spar to one side; you will be assembling it last)
- Repeat the process as many times as necessary
- To put the base spar into position, it is first advisable to loop a piece of rope through the eye of the forestay in order for the spar to be able to slide easily around it and for the forestay then to be retrieved.



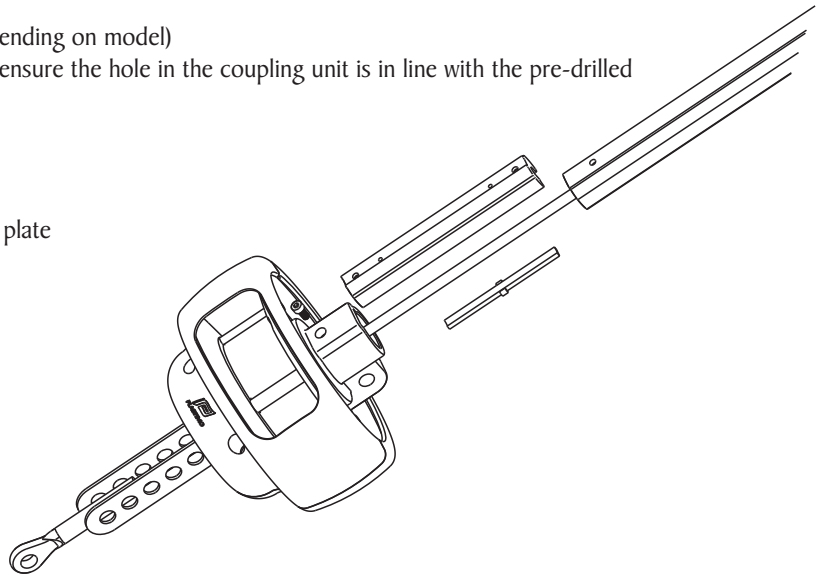
5.5 - ASSEMBLING THE BASE SPAR

- ✔ IMPORTANT: ensure the base spar is facing the right way (see diagram below)



5.6 - ASSEMBLING THE DRUM UNIT

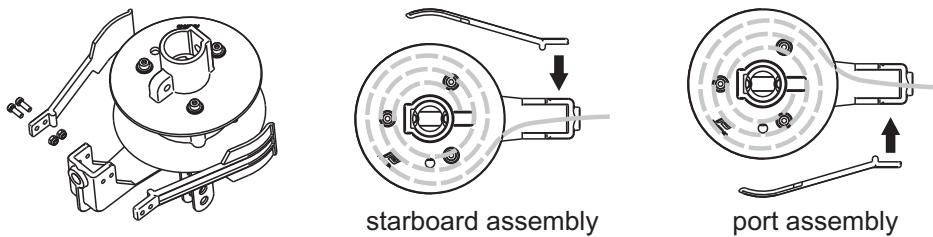
- Position the sleeve or turnbuckle* on the drum (*depending on model)
- Insert coupling unit from the bottom end of the spar (ensure the hole in the coupling unit is in line with the pre-drilled hole on the end of the base spar)
- Insert the base spar into the drum unit
- Put some silicone filler in the pre-drilled hole
- Insert the M5x12 screw
- Attach the jib reefing system to the forward mounting plate
- Lower the halyard swivel
- Tighten the backstay



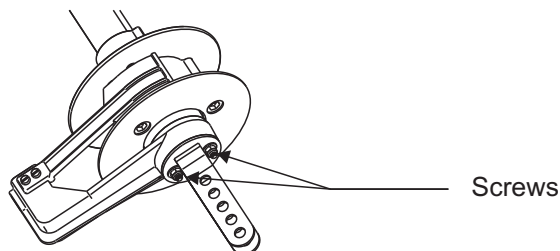
5.7 - ADJUSTING THE REEFING LINE FEEDERS

5.7.1 - 406-T model

- The reefing line feeder on the 406-T model is assembled either on the right or left hand side of the drum unit, depending on which direction you prefer to reef.
- To fasten the reefing line feeder, use the two M4x12 nuts and bolts

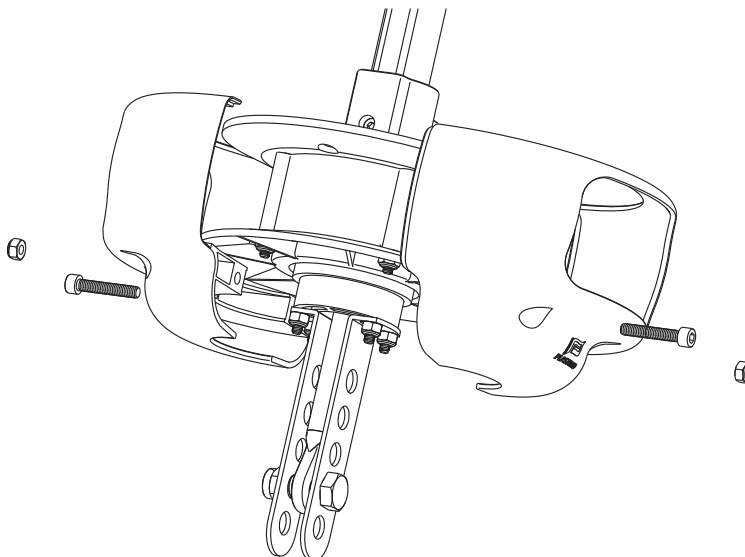


- The angle is adjusted by loosening the two screws that hold the chainplate.



5.7.2 - 609-T & 811-T models

- The angle of reefing line feeders on 609-T & 811-T models is adjusted by loosening the two nuts and bolts (see diagram below)

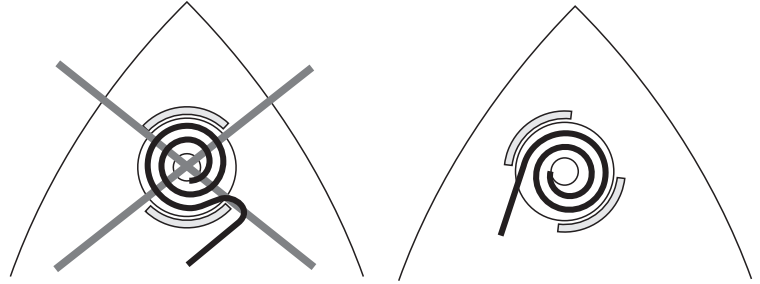


6/ Recommendations

Reefing line feeders

The angle of all the reefing line feeders may be adjusted.

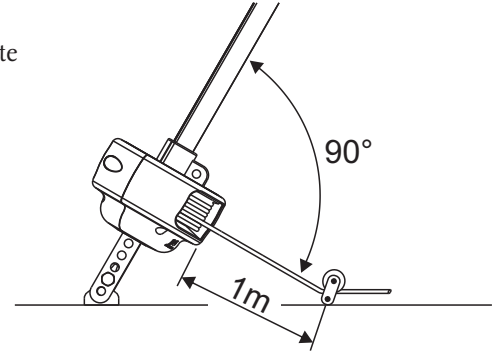
IMPORTANT: they should be positioned in a way that best suits the direction of pull on the line



Reefing line

The reefing line is wound around the drum. Only use pre-stretched rope in order to eliminate any elasticity

Refer to diagram below for the position of the reefing line as it comes out of the drum



Reefing direction of the genoa

The genoa should be reefed in the same direction as the strands turn on the forestay.

When you are not sailing

Slacken the backstay in order to reduce undue strain on mechanical parts

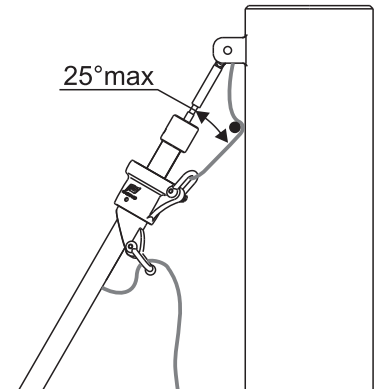
About the drum

When your genoa is fully reefed and in order to avoid direct strain on mechanical parts and on the knot of the reefing line, there should be a minimum length of one halyard turn on the drum.

Halyard/forestay angle

This angle should never be more than 20-25° as this makes it impossible to tauten and reef the sail.

What is more, this undue strain on the forestay could cause it to unravel and even dismast the boat.



When sailing

Ensure that the forestay is always taut. Not only will this make reefing easier but will avoid any danger of the forestay unravelling. (We recommend putting a universal joint at the masthead)

Hauling on the genoa

The reefing line should never be used to haul on the sail.

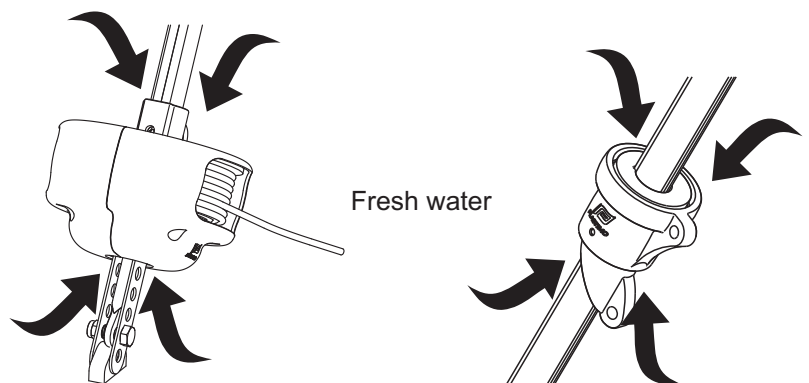
Unfurling the genoa

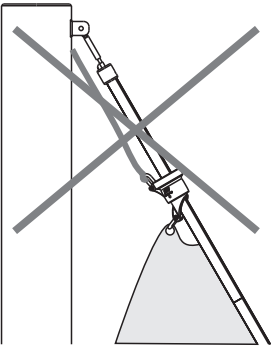
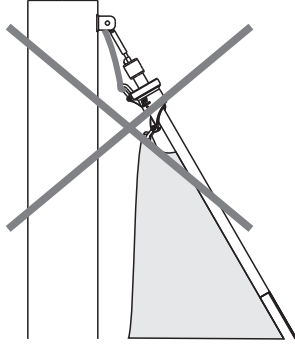
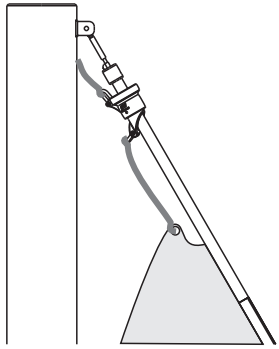
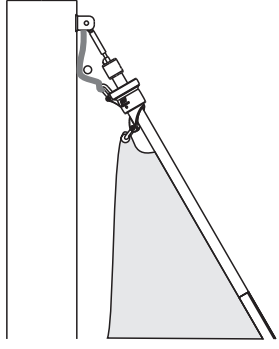
When unfurling the genoa, ensure that it does not unfurl too quickly by winding the reefing line once round a winch and feeding it out slowly in one hand and the genoa sheet in the other.

Maintenance

Rinse the drum unit and the halyard swivel once a year with fresh water (no dismantling required).

No other special maintenance is needed.



PROBLEM ENCOUNTERED	CAUSES	SOLUTIONS
Halyard turns with the halyard swivel	<ul style="list-style-type: none"> - Forestay not taut enough - Genoa halyard too slack - Genoa too short, halyard swivel too low  <ul style="list-style-type: none"> - Genoa halyard too close to the forestay 	<ul style="list-style-type: none"> - tighten the backstay - tauten the genoa halyard - Use a strop  <ul style="list-style-type: none"> - Fasten a halyard feeder to the mast or a diverter to the forestay 
The halyard tends to wrap itself around the spar when the genoa is hoisted	<ul style="list-style-type: none"> - Halyard is worn and thus twists in the direction of the rope strands 	<ul style="list-style-type: none"> - Change the halyard
Reefing line fouls	<ul style="list-style-type: none"> - Wrong angle on reefing line. First sheave too far from drum unit. - Genoa unfurled too quickly 	<ul style="list-style-type: none"> - Change position of first sheave - Slow down the unfurling of the genoa by winding the reefing line once round a winch.
Genoa difficult to hoist	<ul style="list-style-type: none"> - Poor output from a sheave. Halyard jammed - Luffrope too large 	<ul style="list-style-type: none"> - Try with a different halyard - Change luffrope

7/ OPTIONAL EXTRAS

7.1 - HALYARD DIVERTERS

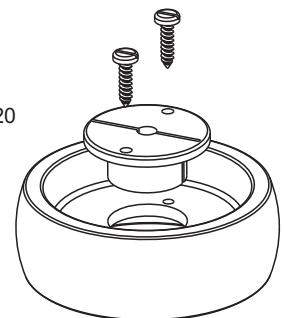
When the genoa is furling or unfurling, if the angle between the halyard and the forestay is too tight, the halyard risks being twisted round as the halyard swivel turns.

2 options are available to solve this problem:

7.1.1 : Halyard diverter wheel

To install the diverter wheel, it is necessary to dismantle the forestay

Ref : 25720



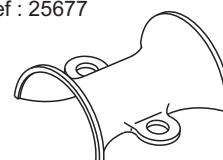
7.1.2 : Halyard feeder

To install the halyard feeder, it is not necessary to dismantle the forestay

2 sizes are available:

- ref 25677 : 609 et 811 models
- ref 26140 : 406 model

Ref : 25677



Ref : 26140

