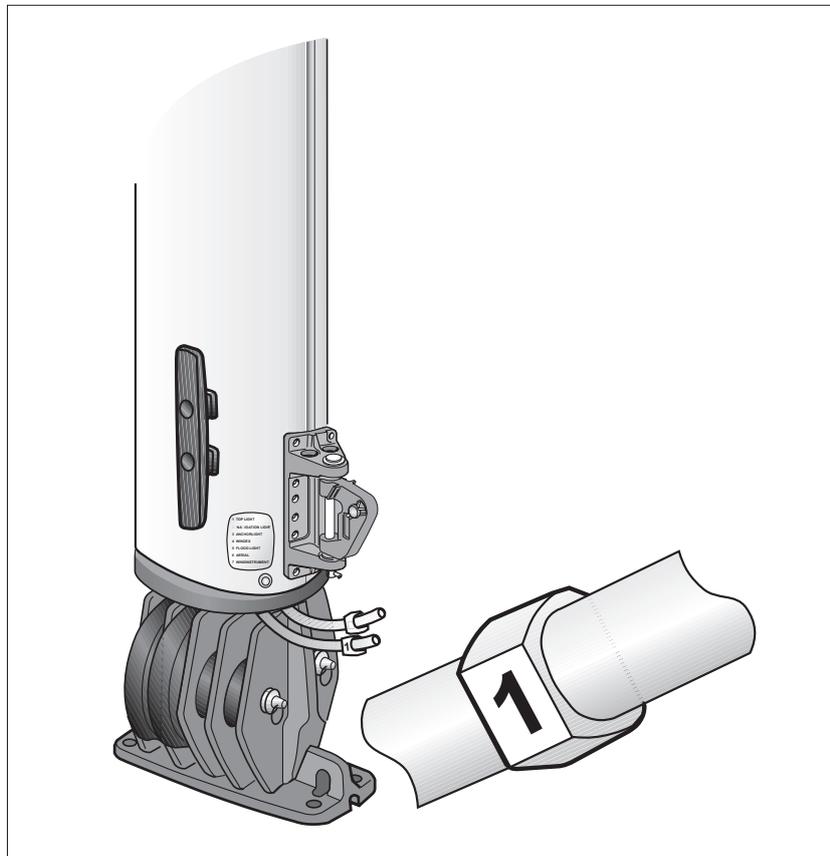
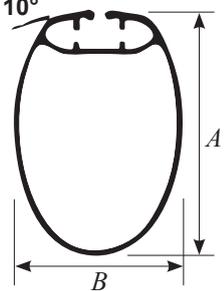
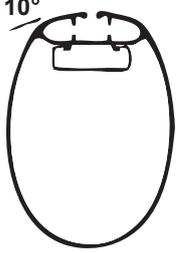
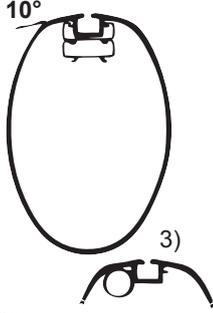
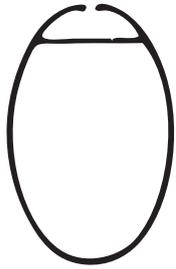


Running cables

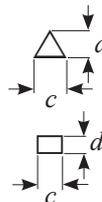


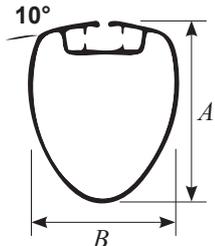
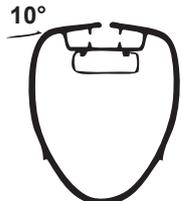
Retro-fitting cables

Identify the section type of your mast by using the tables below. See also next page. It is quite easy to check the design of the after section by removing the headbox. (See page2).

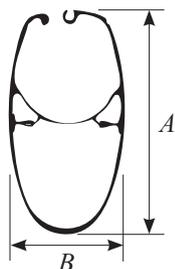
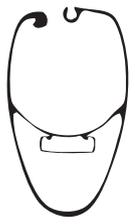
"E" sections (See next page for "D", "P" and furling sections.)						
	INSTRUCTION 1A	INSTRUCTION 1B	INSTRUCTION 2	INSTRUCTION 3		
A/B	Available cable space ¹⁾	Available cable space ¹⁾	Available cable space ¹⁾	Available cable space ¹⁾		
122/85	-	-	No conduit ²⁾	2 △ (13x15)		
130/93	2 △ (15x15) mm		-	-		
138/95	2 △ (15x15)	2 □ (15x16) + 15x50 (plastic conduit) ⁴⁾	No conduit ²⁾		-	
155/104	2 △ (15x15)		2 □ (9x12) ^{2) 6)}			
170/155	2 △ (15x18)			⁶⁾		
177/124	2 □ (15x20)		⁶⁾			
189/132	2 □ (15x16)		⁶⁾			
206/139	2 □ (15x16)		⁶⁾			
224/150	2 □ (15x16)		⁶⁾			
237/162	2 □ (15x17)		⁶⁾			
274/185	-		-	2 □ (9x12) ^{2) 6)}		-
321/171	-		-	See sep. instruction 595-691-... supplied upon request.		
365/195	-	-	-			
126/85	-	-	-	2 □ (10x12)		
147/95				2 □ (10x12)		
162/104				2 △ (15x15)		
178/115				2 △ (15x18)		
216/139				2 △ (15x20)		
239/162				2 △ (17x25)		

- "2 △ (cxd) mm" = two triangular spaces. c d
"2 □ (cxd) mm" = two rectangular spaces. c d
- 2 off maximum. Ø 9 mm cables can be glued to the sail track.
- ALT: cable tubing 512-118-01 Ø 35x32 (L=5000)
- Plastic conduit: 535-608-01 (L=6000 mm)
- Plastic conduit: 535-643-01 (L=6000 mm)
- Also 2(l)x plastic conduit 535-607-01 16x52 (L=6000)



D profiler		
	<ul style="list-style-type: none"> - 10° plough-shaped after face - Separate conduits 	<ul style="list-style-type: none"> - 10° plough-shaped after face - Separate conduits - Track for plastic conduits
	INSTRUCTION 1A	INSTRUCTION 1B
A/B	Available cable space ¹⁾	Available cable space ¹⁾
109/88	2 Ø 10	-
121/92	2 □ (15x10)	
129/100	2 □ (15x10)	
137/113	2 □ (15x13)	
146/112	2 □ (15x13)	
160/132	2 □ (17x14)	2 □ (17x14) + 15x50 (plastic conduit) ⁴⁾

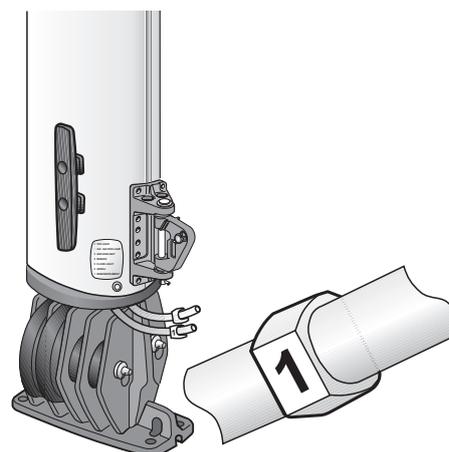
P profiler	
	- Pear-shaped cross section
	INSTRUCTION 3
A/B	Available cable space ¹⁾
75/53	2 △ (8x12)
90/65	2 △ (8x12)
100/73	2 △ (10x15)
111/81	2 △ (10x15)
123/90	2 △ (8x12)
137/100	2 △ (10x18)
152/111	2 △ (10x15)
169/123	2 △ (15x15)
188/137	2 △ (15x15)

FURLING		
	INSTRUCTION 4	INSTRUCTION 4
A/B	Available cable space ¹⁾	Available cable space ¹⁾
214/122	-	15x50 (plastic conduit) ⁵⁾
232/126	2 □ 28x28	-
260/136	2 □ 28x32	-
290/150	2 □ 28x35	-
324/169	See sep. instruction 595-691-... supplied upon request.	
370/192	See sep. instruction 595-691-... supplied upon request.	

APPROXIMATE OUTER DIAMETERS OF CABLES	Diameter (mm)
Navigation & Deck Lights	Ø 7 - Ø 8,5
Anchor Light	Ø 6,5
VHF	Ø 5 - Ø 10
Radar	Ø 12,5 - Ø 2
AP Navigator (Decca, Loran C)	Ø 6 (Ø 8)
Satellit Navigator	Ø 6

Cable identification

Selden Mast AB have a cable identification system to facilitate connecting when maststepping.



FITTINGINSTRUCTION 1A ("D" och "E"-sections with separate conduits)

1 Equipment required

- Cable
- Closed cell foam plastic pads (approx. 20x20x20 mm)
- Adjustable spanner
- Drill
- Drill bit. (appr. 4 mm larger diameter than that of cable)
- Bent plate strip, 100x15x1,5 mm.
- Thin line, 0,5 m. in length, Ø 3-4 mm.
- Silicone compound (keel stepped masts only)

2 Preparation

Excepting at the headbox, at the partners, and at the heel, cable conduits are open along the mast track face. Remove the headbox by taking off the nuts on the top of the box, and lift the box upwards. Drill hole(s) for the cable(s) in the centre of the mast-wall face of the cable conduit approximately 50 mm (2') below the cut-out for the headbox. Take care not to damage any cables already in situ. Select the side opposite the main halyard if possible.

Drill the hole at an angle to minimize the risk of chafe, and burr it carefully. Same turns, of adhesive tape around the cable contribute towards a fairer cable passage. (See fig. 1.A.2). Standard plastic cable grommets are available for same cable sizes. Any holes needed at spreader level or elsewhere for deck lights, etc. are executed in the same manner. Mast heel fittings are already provided with cable exit holes.

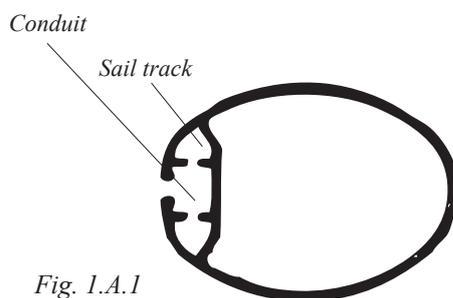


Fig. 1.A.1

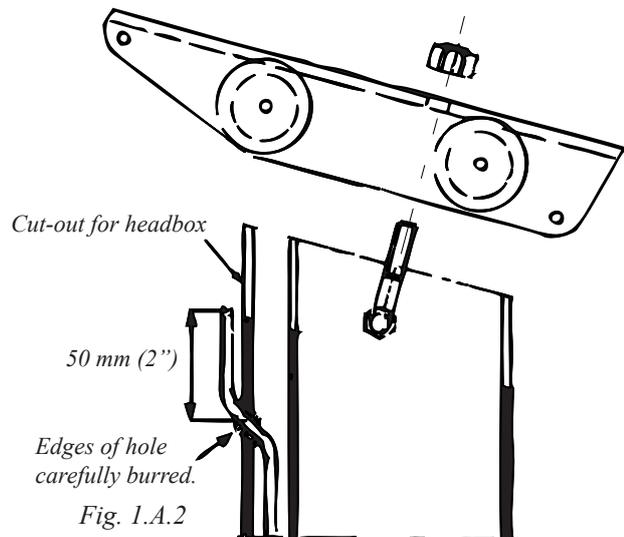


Fig. 1.A.2

3 Fitting procedure

With the help of a length of messenger line draw the cable upwards from the heel (see fig. 1.A.3). Alternatively, make an eye at the cable end, and pull the cable along the conduit with the aid of a small screwdriver. Feed the cable through the pre-drilled exit hole at the mast-head.

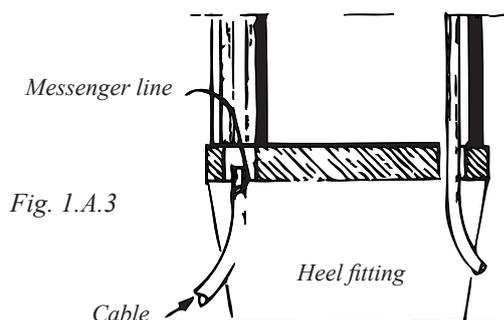


Fig. 1.A.3



Fig. 1.A.4

A messenger and a long hook will facilitate passing the goose-neck fitting and track gate. Track gates that are screwed in place are easily removed. The aforementioned eye on the cable end facilitates threading the cable through the hole at the mast-head. To avoid the weight of the cable from being suspended from the point of mast head exit, and to prevent the cable from slamming inside the conduit, the cable must be wedged in place. This is best done by forcing pads of closed cell plastic foam at regular intervals along the conduit length. Their size is dependant upon the space occupied by the cable(s) in the conduit. Try first with 20x20x20 mm pads, fitting them as shown in figs. 1.A.5A to C. It can be a little tricky at first, but one soon gets the knack of it. A pad every 60 cm (2') gives satisfactory support. The advantage of pads over gluing is that the pads are easily removed if one wants to remove the cable at a later date. (See the last paragraph on this page).

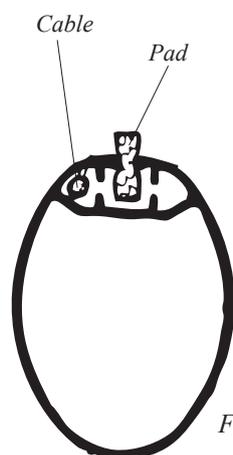


Fig. 1.A.5a

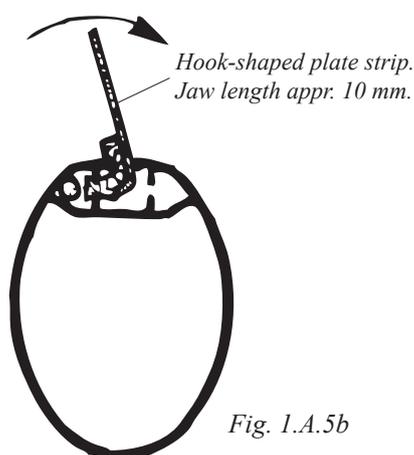


Fig. 1.A.5b

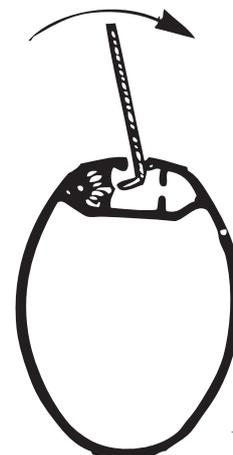


Fig. 1.A.5c

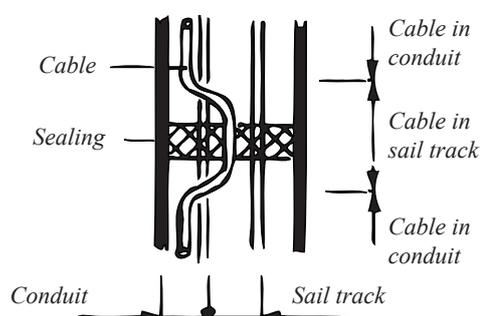
Keel stepped masts

On keel stepped masts the sailtrack and conduits are sealed with silicone rubber on a level with the upper edge of the mast coat. An exception are those masts that have been left unsealed on customer request, and these are clearly labelled "OPEN CONDUITS". (See instruction 595-548-E, **not** attached). This packing must be removed to give free passage for the cable * and be replaced after the cable has been installed. There are holes where the sealant can be injected to re-seal the conduits just above or just below the top edge of the coat.

If existing cables are glued, no further steps need be taken. If they are held in place with pads the pads must first be removed before fitting the new cable. Remove the headbox (fig. 1.A.2). Insert a hook-shaped plate strip (fig. 1.A.5b) below one pad at a time, push the pad to the top end of the mast, and remove it. The track gate can also be removed, and pads pushed there for removal.

These pads can later be re-used for holding both the old and the new cables.

*) This is a time-consuming task, so contact Seldén Mast for advice. The method shown opposite can be used for **thin** cables (appr. 6,5 mm Ø 1,4" maximum). It is easier to remove sealing compound from the sail track than from a conduit.



VIEWED FROM AFT:
SECTION



FITTINGSTRUCTION 1B

("D" and "E"-sections with separate conduits and track for plastic conduits)

a. Fitting cables in conduit sections

To be carried out acc. to Instruction 1A.

b. Fitting cables in additional plastic conduits

1 Equipment required

- Cable
- Adjustable spanner
- Drill
- Drill bit (appr. 4 mm larger diameter than that of cable)
- Silicone sealant - for keel stepped masts only
- (Messenger line, Ø 3-4 mm, length = mast length)

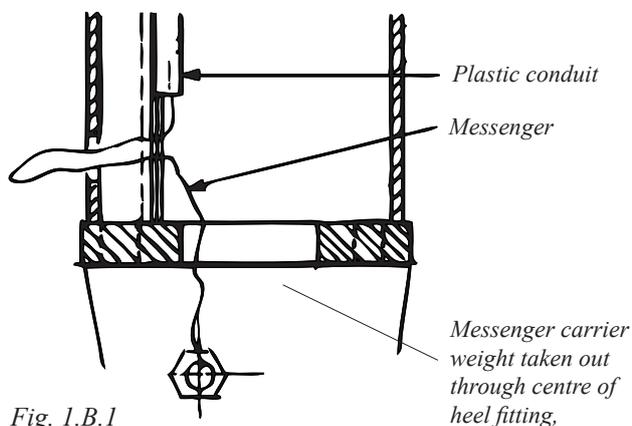
2 Fitting procedure

The cables are fed through the conduits with help of the existing messenger line(s). If messenger lines are missing the easiest way to fit them is with the aid of a conduit feeder (a long steel strip used by electricians).

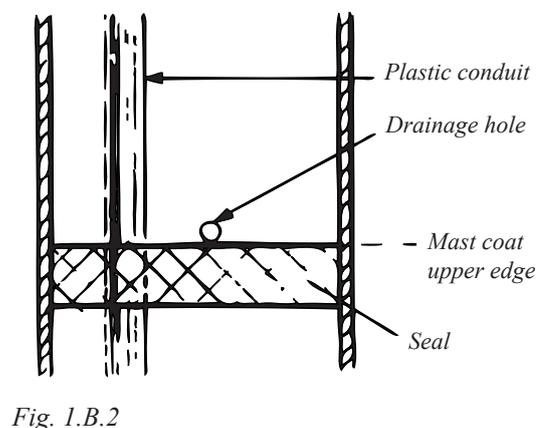
Alternatively, the messenger can be fitted with the mast stepped. Try to stay the boat to minimize rolling. Attach a small weight such as a nut to the end of the new messenger and lower it from the mast head to the heel, where it can be taken out (fig. 1.B.1).

In keel stepped masts the conduit passes through the internal seal. (Fig. 1.B.2).

A new messenger should accompany the cable to facilitate future installations.



Deck stepped mast



Keel stepped mast

FITTING INSTRUCTION 2

("E" sections with track for plastic conduits and double mark lines)

a. Fitting cables into sail track

Two cables of maximum \varnothing 9 mm can be laid and glued in the corners of the sail track. (Fig. 2.1).

1 Equipment required

- Cable
- Bottled glue and fine nozzle. Glue type Cascol 1809
- Screwdriver
- Adjustable spanner
- Drill
- Drill bit (Appr. 4 mm larger diameter than that of cable)
- 0,5 m length of thin line, \varnothing 3-4 mm

2 Preparation

Remove the headbox and drill one exit hole in the mast-head in accordance with Instruction 1A, point 2, and one exit hole about 50 mm (2") above the heel fitting. Remove the track gate. This is held in place either with two screws or two pop-rivets which become visible when the central tongue is removed. Drill holes through the inner walling of the sail track immediately above and below the track gate ends. (See Fig. 2.2).

3 Fitting procedure

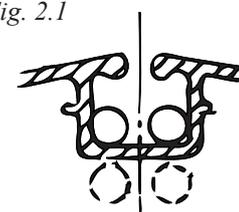
Start cable drawing from the mast head. Tie and tape fast the 0,5 m length of thin line about 50 mm (2") in from the end of the cable. Use this line to draw the cable down to the upper of the two holes at the track gate. Thread the cable through the upper hole, and bring it out again at the lower. (See fig. 2.2). The cable is then drawn down and out through the hole at the heel of the mast.

It can be a little difficult to run the cable past the goose-neck fitting and track gate, but by making an eye on the cable end (see fig. 1.A.4), and with the aid of a steel wire hook it is not so difficult to clear even those points.

On keel stepped masts, the sealant in the sail track at the top of the mast coat must first be removed, to be replaced at the end of the operation.

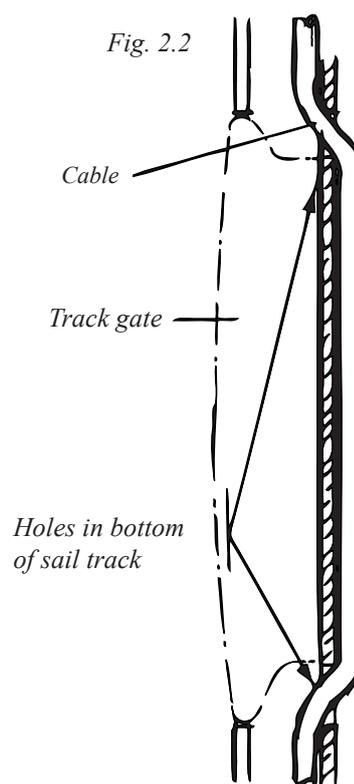
The cable is glued in place as described in Instruction 3, (page 9). Note that glueing must either be carried out indoors or during dry weather. Allow the glue to dry for 24 hours before moving the mast.

Fig. 2.1



Location of cables at track gate.

Fig. 2.2



b. Fitting cables in separate plastic conduits

Follow Instruction 1B.b, "Cables in separate plastic conduits". There are two executions for through-deck fitting on keel stepped masts.

Alt. 1

Plastic conduits (aft and/or forward) pass uninterrupted through seal at deck level.

Alt. 2

Plastic conduit ends above deck level seal. Cable(s) pass through conduit tube in centre of mast. (Older types).

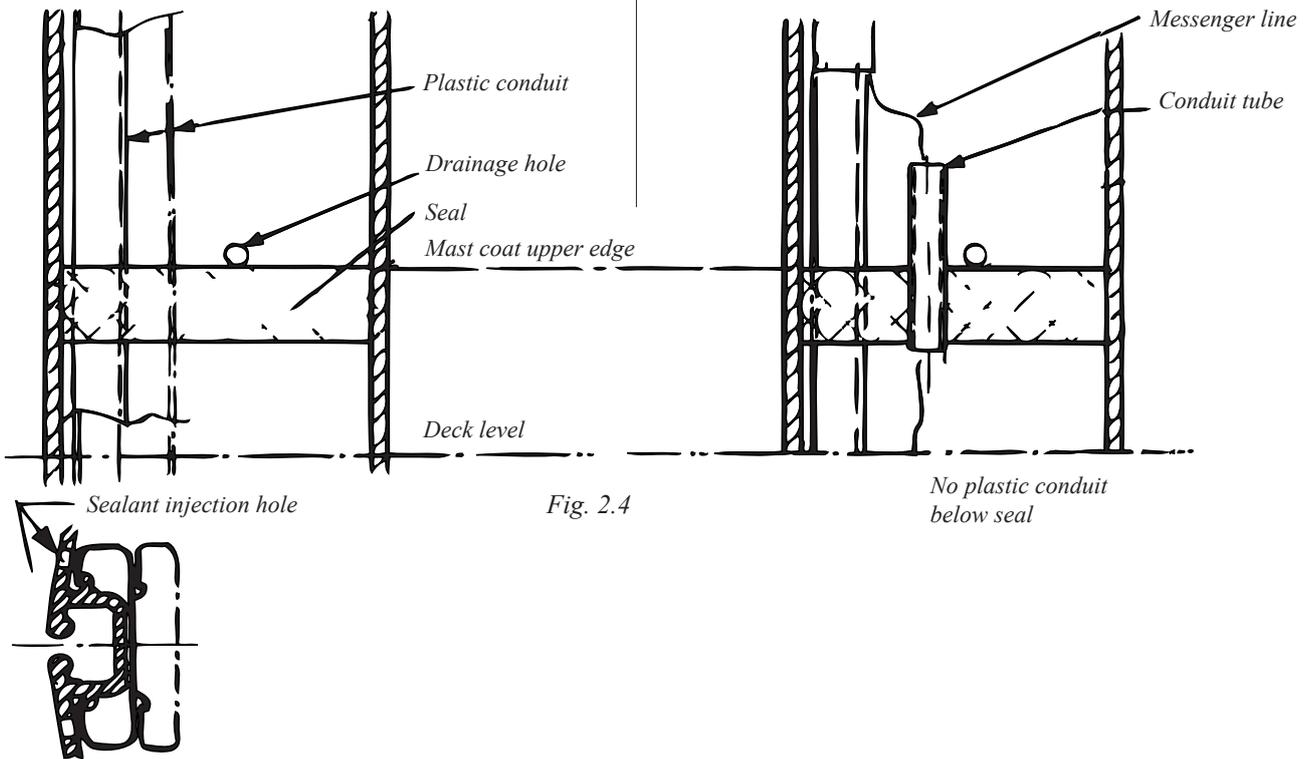


Fig. 2.3

The type of execution can be checked by inspection through the two drain holes on the sides of the mast immediately above the mast coat.

- Alt. 1 The after conduit may be sealed. If it is to be used then the sealant must be removed through the two injection holes which are sited either just above or just below the upper edge of the mast coat. Unfortunately this can be very difficult. Contact Seldén Mast for advice.
(The mast coat may have to be temporarily pulled downwards on the mast).
- Alt. 2 The cables are drawn through the conduits by the messenger line. A new messenger line should be drawn through parallel and at the same time as cables are drawn through in case one later wants to draw more cables. If no messenger line is present, one should be fitted as described in instruction 1B point b2.

It can be awkward getting a messenger line through the conduit tube. A steel wire hook pushed through a drainage hole can be of valuable assistance in getting the messenger line to the conduit tube from the main conduit.

Some mast heels have cable exit holes in their after part as shown in fig. 1.A.3.

FITTING INSTRUCTION 3 (E-sections with rounded after face)

1 Equipment required

- Cable
- Bottled glue and fine nozzle; Glue type Cascol 1809
- Adjustable spanner
- Drill
- Drill bit (Appr. 4 mm larger diameter than that of table)
- 0,5 m length of thin line. Ø 3-4mm
- Silieone sealant - for keel stepped masts only

2 Preparation

Remove the headbox and drill an exit hole at the mast head following Instruction 1A, point 2. Be careful of existing cables. Exit holes are already cast into the mast heel. (See instruction 1A, fig. 1.A.3).

3 Fitting

Cables are drawn upwards from heel according to Instruction 1A, fig. 1.A.3. Read Instruction 1A on how to run cable past the deck sealing on keel stepped masts.

Lay the mast horizontally on two supports and angle it slightly as shown in fig. 3.1.

Tension the cable well and apply the glue to the cable along the whole length of the mast.

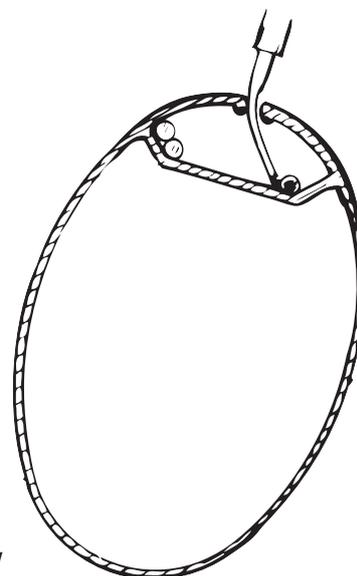


Fig. 3.1

Glueing must be undertaken indoors or in dry weather: The glue must be left to set for 24 hours before moving the mast.

If several cables are to be fitted they should be glued close to each other and one at a time, with a couple of hours' time gap to allow the glue from the first application to gain some initial strength.

The deck level seal must be replaced on keel stepped masts. See page 5.



**Do not overdose the glue. Cascol 1809 is a foaming glue and will fill the mast track if overdosing. Make sure to glue on a dry surface.
Make a test outside the mast track or in a part of the mast track where no sail is hoisted.**

FITTING INSTRUCTION 4 (Furling sections)

1 Equipment required

- Cable
- Messenger line at least as long as the mast, and Ø 3-4 mm
- Drill
- Drill bit (if the cable is to exit between mast head and foot)

2 Fitting

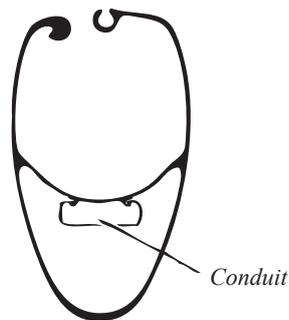
Cables are fed through the conduits using the existing messenger line(s). On keel stepped masts the conduits pass through the deck level seal. A new messenger line is drawn through together with the cable, to remain in situ for possible future use.

There are exit holes already in place at the mast head and heel.

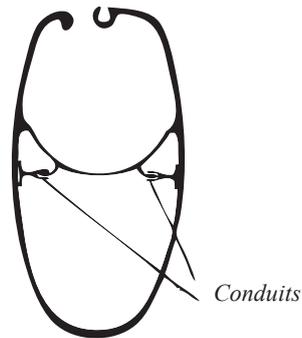
Previously drawn cable can hinder the drawing of new cable. In which case the old cable must first be removed - not forgetting to tie a new messenger line to it first before withdrawing it. There are exit holes at, or close to, the mast head and heel.

A cable exit can easily be arranged on furling sections 232/126 and upwards. The exit hole must be drilled with the greatest care so as not to damage existing cables. Lay the mast with its forward face uppermost so that existing cables lie in the after corner of the conduit. Drill the exit hole in the opposite corner. Drill the hole at a slight angle to minimise the risk of cable wear. A couple of turns of tape around the new cable will also help to give the cable a fairer exit run.

Cable that is to exit between mast head and heel on furling sections 190/94-214/122, 235/116 have to lie free within the forward chamber: Stretch the cable hard to avoid slamming.



SECTION RA 190/94-214/122, 235/116



SECTION RB/RC 232/126, 260/136, 290/150

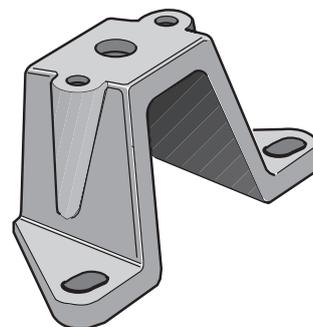
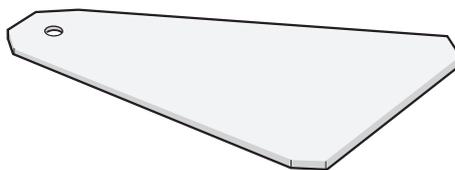
Extra equipment

Windex base

Windex base for 15° headbox angle.
Windex extension base.

Part No. 508-549-01

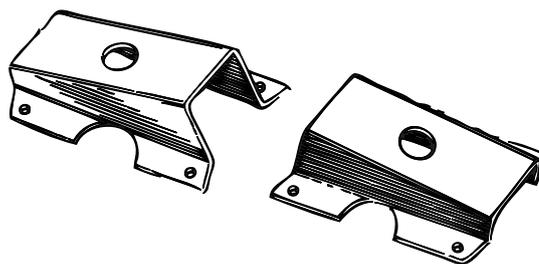
Part No. 508-521-01



Antenna or Wind instrumentation base for 15° headbox angle

Medium size (100 x 40 mm) Part no. 508-563-01

Larger size (180 x 65 mm) Part no. 508-541-01

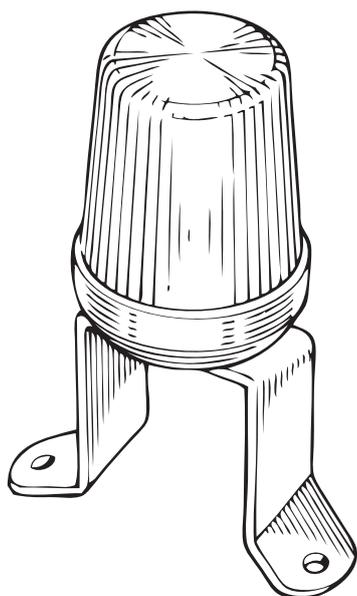


Antenna and Wind Instrumentation Base with place for several antennae and instruments

Medium size, 550 x 80 mm Part No. 508-556-01 + 508-508-01

Ditto, with large base Part No. 508-556-01 + 508-541-01

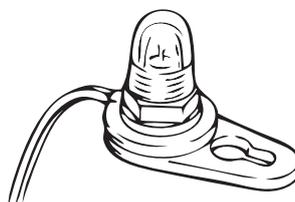
Large plate, 800 x 80 mm Part No. 508-559-01



Anchor light

Part no. 526-163-01

Windex light



Part no. 526-153-01

Masthead Combination Light

(With or without anchor light).

With anchor light, Part No. 526-021-02

Without anchor light, Part No. 526-020-02



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