



INSTALLING THE AEROWFIN If in doubt, please contact us – we are here to help

POTENTIAL SNAGS

- Invert boat on trestles and remove all elements of the existing fin/rudder system
- Insert the new **steering pin**, threaded end first, from the bottom of the hull, aligning the cut-out in the slotted end towards the bows.
- Carefully slide your new AeRowFin in place:

Blade-type fittings: ensure the slot is clear, insert bow end of root into slot and push forward, then pull the AeRowFin astern to firmly engage its rear with **transverse pin** in fin slot. Then insert the **retaining screw or grub-screw**

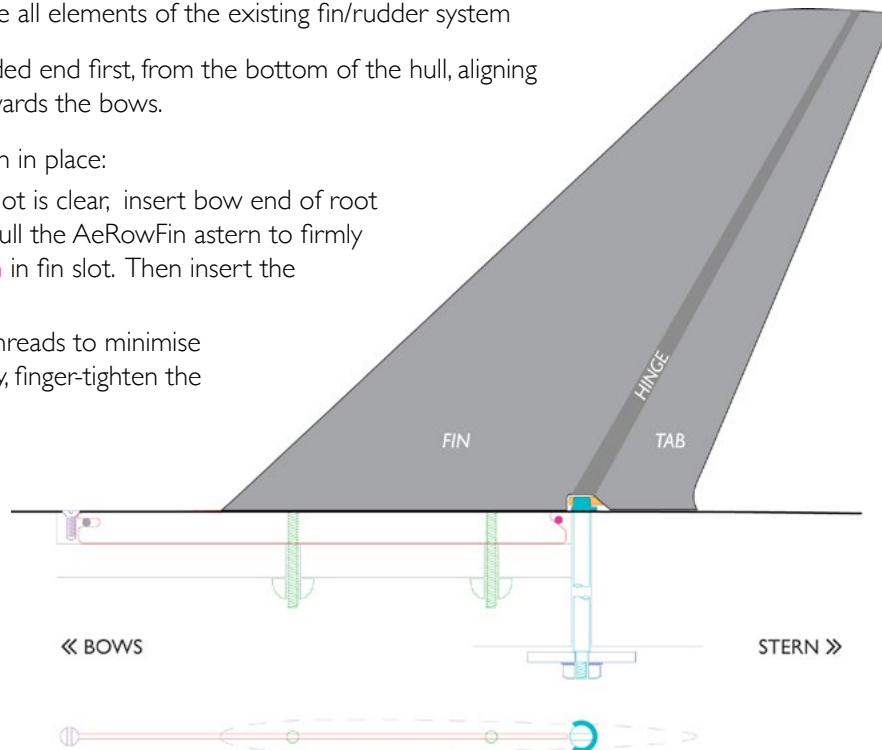
Bolted fittings: grease M5 bolt threads to minimise leakage. Firmly, but not excessively, finger-tighten the M5 nylon wingnuts

- Ensure the slot in the shaped end of the **steering pin** engages with the **3mm stainless steel rod** protruding from the AeRowFin's moving tab

- Turn the boat right-way up, and fit the **steering yoke** onto squared end of **steering pin**. Secure with M5 Nyloc nut

- **Above-deck yokes** should be mounted ends to the bow (reverse arrow) to discourage over-rotation

- **Under-deck yokes** where steering wires run rather diagonally towards the yoke we recommend our straight steering yoke. Yokes must not bind against the rudder tube and should clear the insides of the boat (if too long, shorten ends with a hacksaw and file smooth)



Possible installation issues with blade-type fittings are easily solved. AeRowFins must sit snugly against the hull so that they can't rock (even slightly) under steering loads.

Finbox set too shallow.

Sometimes the boat-builder sets the finbox insufficiently deep – by up to 1mm. So they file off the protruding part until flush with the hull, paint it over and you'd never know. With plate fins this doesn't matter as their exact depth is unimportant, but it will leave a small gap between your installed AeRowFin and the hull, which is undesirable. So remove the AeRowFin. Apply wax polish to the hull surface and, when dried, buff it vigorously with a soft cloth for a releasing surface. Re-insert the AeRowFin, mix some polyester car-body filler paste, quickly squeeze it into the gap from both sides, ensure the fin is upright and wipe clean to a blended fillet between AeRowFin and hull. Allow to harden.

Note: if there is more than a 0.5mm initial gap, to ensure proper steering engagement you may now need to add a washer between the immersed end of the steering pin and the bottom of the boat

Finbox set too deep.

Sometimes fin boxes go in deeper than usual and the boatbuilder then applies a layer of filler. This puts the transverse pins in the fin box too far below the surface, the precisely-sized cut-outs in the AeRowFin root can't properly engage and now foul on those pins. Overcome this using a flat needle file to gently file down the contacting faces of the cut-outs until first the leading end, and then the aft end, of the root properly engage and the AeRowFin slides back. The mid-line of the hinge axis should now align with the centre of the steering pin slot.



POSITIONING THE CANARD FIN

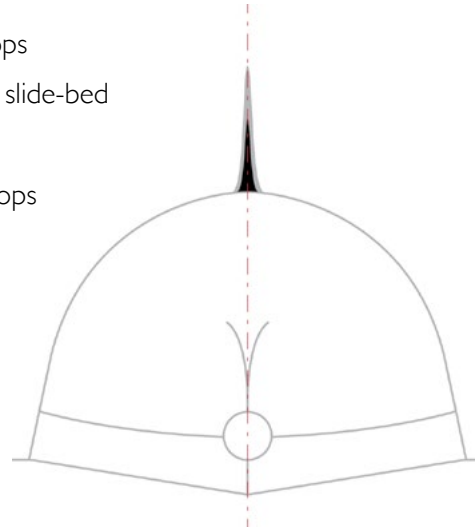
Lengthwise

- VIII+ 5–7cm/2–3" astern of bow seat's frontstops
- IV– 5–7cm/2–3" approx. midway along bow's slide-bed
- IV+ (bow loader) under bow's backstops
- IV+ (stern loader) just ahead of bow's frontstops

Centre-line

You need to find and mark the **dead centre line** of the underside of the hull:

- Place your boat bottom-up on trestles
- Take a dry-wipe pen and a tape measure
- 30cm (12") ahead of the Canard's location, measure around the hull from the lip of the hull (saxboard, gunwale) on each side
- Then measure half of that distance up from each lip and mark it each time
- Mark the point midway between those two marks – that will be your centre.
- Repeat this process a similar distance astern of the Canard fin
- Finally, draw a straight line between your two centre marks – for your true centre-line



CAUTION

Our Canard fin is a very powerful instrument which requires careful and accurate installation.

We very strongly advise against fitting a Canard fin to any shell that is not also fitted with our AeRowFin steering foil.

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Equipment:

- Masking tape
- Solvent cleaner
- Dry-wipe pen
- Tape measure

Do not yet remove the protective film covering the adhesive surface on the fin's root.

Locate and Align the Canard fin

- Place the Canard onto the marked centre-line
- Apply a strip of masking tape across boat at tip and tail of the Canard's root
- Mark the centre-line onto those strips of tape so that the Canard can be replaced later.
- Make a quick **line-of sight check** that the Canard does align with the AeRowFin (Trust your eyes, they are better than lasers or cotton lines)
- Apply strips of masking tape to the hull to define the straight edges of the Canard's foot

Prepare the surface

- Thoroughly clean bonding area of hull with alcohol or similar light solvent
- Replace the Canard in the correct position

Attach the Canard fin

- **Now remove protective film from double-sided mounting tape**
- Hold the Canard so that only the edge of the root is against the strip of masking tape
- When confidently located, tip the Canard fin upright onto hull without applying any pressure
- Make final visual alignment check – at this stage you can still lift it off to re-align
- When correctly aligned (and pointed in the correct direction), **press down hard**
- Allow the bond to improve for a few hours before use