

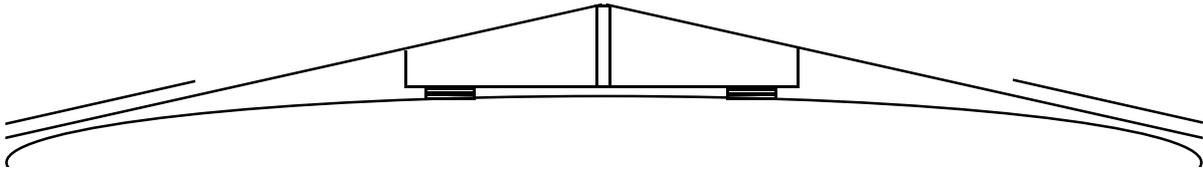
## **Instructions for a Folding Windscreen arrangement for a Nauticus 27**

by Mick Fowler 2008

1. Remove the windscreen and take out the fixing flanges on the main screen at the bottom leaving the side ones in place.
2. Remove the cover plates holding the two side screens (triangular pieces). Keep these to use as a template to drill the new hinged sections mentioned later.
3. Using 1 inch x 1/8 inch section aluminium bar make 4 pieces the same length as the piece removed from the join and copy the profiles.
4. Obtain 4 x 3 inch stainless steel (or water resistant) butt hinges. I got mine from Screwfix and they are supposed to be resistant to salt water for 25 years but after 3 years they were beginning to rust around the screw holes! Stainless would be far better!
5. Place two hinges across two of the bars as shown in the drawing—this unit will copy the joining section you removed and hinge the side panels forward from the main screen.
6. Using M4 x 5mm countersunk screws mount the hinges to the bars by tapping M4 holes through the 3mm aluminium bar
7. Lay the hinged unit on top of the joining plate and mark the mounting holes onto the 3mm bar. Drill 4mm holes in the bar. The hinged units should now fit back onto the existing holes that are in the windscreen pieces.
8. When assembled the side pieces fold forwards onto the outside of the main screen!
9. Now for the tricky bit! The main screen needs to hinge backwards from its seating onto the cabin roof (cockpit side). To make this possible I made a wooden piece that picked up the shallow angles of the front screen. It is best to lay the windscreen onto the roof in its final position when hinged flat and use cardboard to work out the shape needed for the T piece. This was about 12 inches long and I cut the shallow angles and gradient to fit. The strength is in the T design fixed to the centre of the screen. I drilled holes from the outside of the aluminium frame and used self tapping stainless screws into the wood (I used mahogany).
10. Every boat is different and it would be hard to give accurate dimensions of this T piece assembly - experimenting is needed with cardboard. The eventual positioning of the hinges to the deck will allow the whole assembly to hinge backwards (missing the small bump!) and the shallow angle will therefore be raised in the middle and the outsides of the screen will sit on the cabin roof. This prevents the screen “collapsing” in the middle.
11. I used 2 x 4 inch hinges on the T piece screwed to the cabin roof with self tap screws straight into the fibre glass first drilling pilot holes carefully avoiding piercing the inner roof.
12. The windscreen should hinge away from the windscreen wiper (if you have one).
13. The last tasks are to check/reposition the canopy fixings around the top corners and refit the rubber seal at the base of the screen to allow for the hinging.

If you want to discuss it before you start then please feel free to ring me on 01376 553204. Unfortunately I've sold my boat now but attached are pictures of the complete thing!

Good Luck  
Mick



Windscreen section shown flat onto cabin cockpit roof. I used the original mounting holes towards the centre of the roof to place two screws through the wooden T piece to secure the screen when upright. The canopy tends to pull the screen backwards if you don't do this. The original screws are still used to secure the side panels of the screen. It is important to get the side hinges correct to maintain the original shape of the screen otherwise the canopy will not fit on its original fixings! Also water will leak in.

