User Guide: Tiller Extension

Purpose: Allow better control of tiller when seated on side of cockpit. (For more extreme hiking, a conventional articulated extension is recommended, eg from Harken.)

Material: PETG, fabricated by 3D Printing. As with most plastics, these will degrade over time when exposed to UV and water. When not in use, best is to store parts in a dark, dry location.

Parts included: Plastic tube sleeve, 1/2" x 18" aluminum tube with bonded end cap, 4 x 1/8" x 1" stainless steel pan-head screws, 2 x 1" stainless steel cotter pin.

Installation:

1. Position plastic tube sleeve near the end of the tiller such that, when installed, the end of the tube with the cap will be behind the end of the tiller, eg 1"-2". Remove protective tape from foam strip and press sleeve onto desired location. Sleeve may be inserted on top or bottom of tiller as desired.
2. Pre-drill three 1/8" diameter x 1/2" deep holes into tiller through the three mounting holes in the sleeve. If tiller is aluminum, drill only through the side of the tiller adjacent to the sleeve.
3. Screw the three 1/8" x 1" stainless steel pan-head screws through the sleeve holes and into the tiller. Since most wooden tillers are made of hard wood varieties such as oak or ash, it helps to pre-lubricate the screws with beeswax or bar soap. Screw in slowly to avoid cracking the tiller or plastic sleeve. DO NOT OVER-TORQUE SCREWS WHEN ATTACHING OR PLASTIC MAY BREAK!
4. Secure the rear end of the aluminum tube with the supplied stainless steel cotter pin. Insert through both holes until the head of the pin is against the hole and then spread the two prongs, using pliers to bend these around the shape of the tube.

Left: Tube sleeve and three supplied 1/8" x 1" SS pan-head screws. Soft foam adhesive strip is used to help position sleeve and account for non-planar surfaces. DO NOT OVER-TORQUE SCREWS WHEN ATTACHING OR PLASTIC MAY BREAK! Right: Supplied cotter pin installed through hole at the end of the aluminum tube.

Left: Tiller extension fully retracted, limited by plastic cap, which is bonded to the end of the tube. Sleeve is attached so that the end of the aluminum tube is somewhat behind the end of the tiller when retracted, eg 1"-2". Right: Tiller extension fully extended, limited by cotter pin.

Have Questions or Comments?

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