

Scanmar SOS Rudder

Swing-down Mount - 2014



Read these instructions thoroughly and be sure you understand the procedure before beginning your installation.

SOS Emergency Rudder

IMPORTANT!

READ THIS BEFORE YOUR FIRST TEST SAIL

Bear in mind the conflicting design criteria of the SOS Rudder. It has to be:

- Small enough to store below-deck
- Light enough to be mounted at sea by one or two people
- Large enough to get the boat to the nearest port

The SOS Rudder is not a full replacement for the boat's own rudder. It is not meant to allow the captain to continue racing or sailing at maximum speed. It is designed to get the boat to port, slowly and safely.

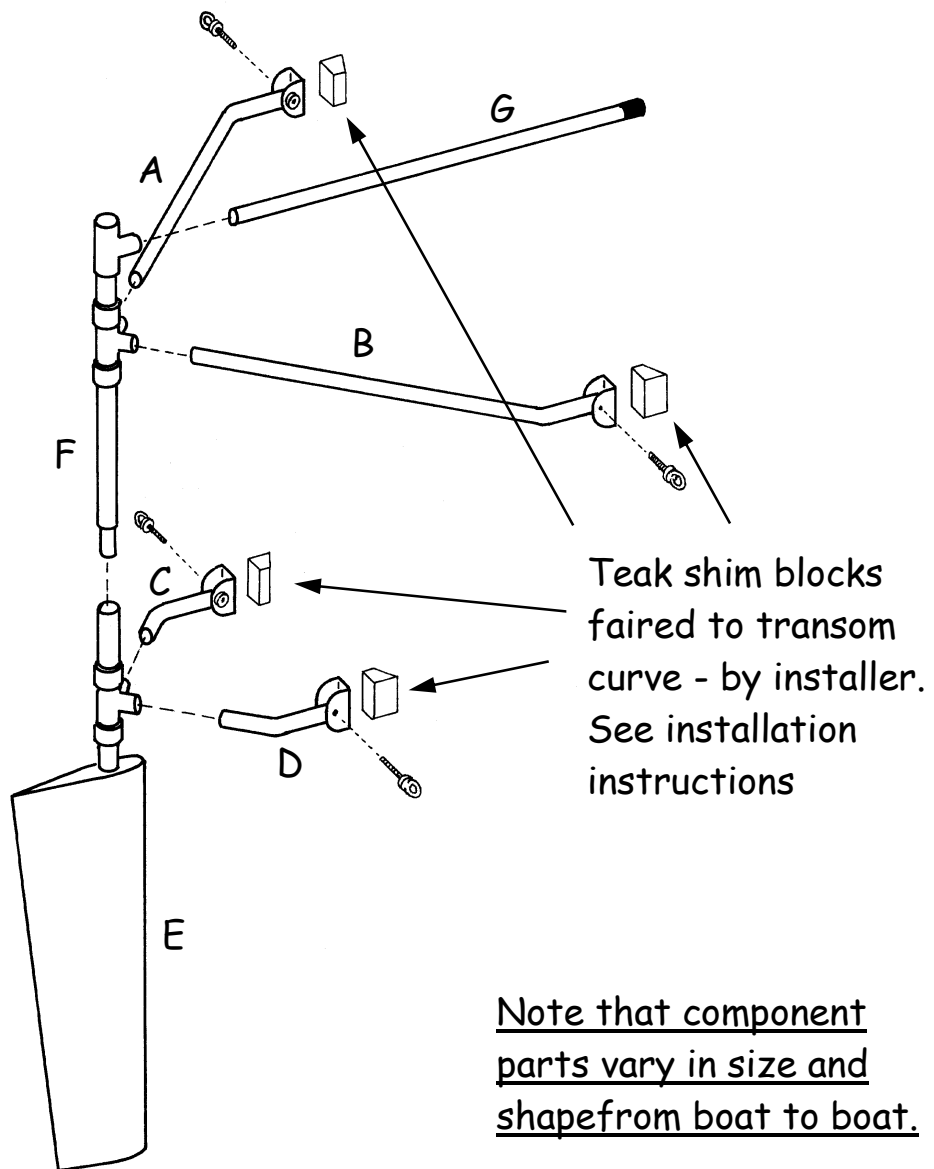
SPECIAL CARE SHOULD BE TAKEN WHEN YOU ARE UNDER POWER. The propwash force on the rudder can be several times that which is exerted when under sail. Motor at minimum speed necessary to get to port.

The SOS Rudder has built-in stops which limit the rudder swing to approximately 25° to each side of boat centerline to prevent overload on the rudder post. Maneuvering in tight quarters will be limited, but that is not what the SOS Rudder is for - it's to get you to a port where repairs can be made.

Balance your sailplan to eliminate as much weather or lee helm as possible, and go easy - if you're using the SOS Rudder your boat has already been damaged, and it should not be pushed. Get to port SAFELY, not QUICKLY.

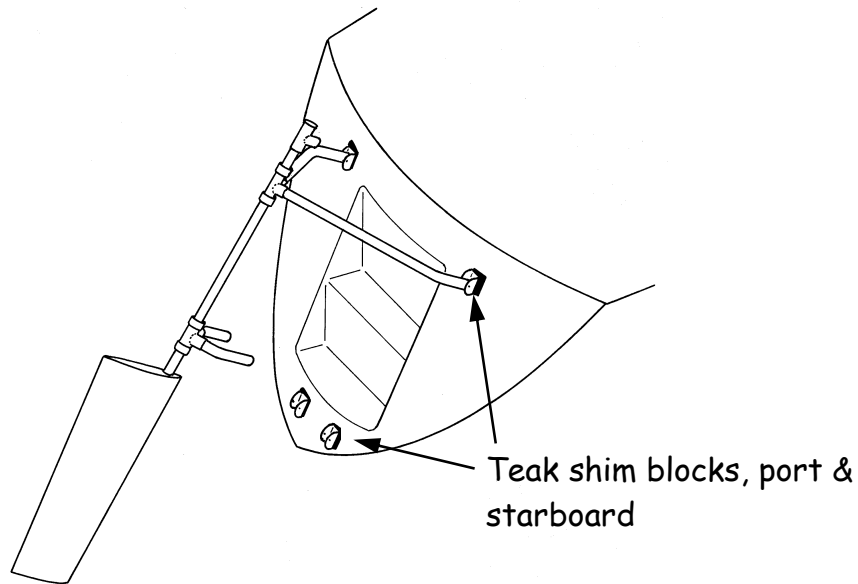
The Scanmar SOS Rudder comes in seven prefabricated subassemblies (nine if diagonals are used):

The upper mounting tubes (A) and (B), the lower mounting tubes (C) and (D), the rudder (E), the rudder post (F), and the tiller (G). The upper and lower mounting tubes have their transom mounting brackets pre-installed on them. The brackets must be installed on the boat before the unit is stored away!



MOUNTING INSTRUCTIONS

Setting up the mounting brackets for the 'swing-down' mount is more time-consuming than for a standard mount, but the result is a setup that makes for easier fitting at sea. The upper mounting brackets serve as hinges - the assembled SOS Rudder without tiller or yoke can be hung from a tackle, the eye-bolts in the upper mounting brackets are fitted, and the SOS Rudder is then lowered while aligning the lower mounting tubes to the lower mounting brackets. Refer to the SOS Rudder mounting drawing for your boat for specific mounting data. Unless stated otherwise, the SOS Rudder is to be installed on boat centerline. If any mounting problems arise, contact Scanmar International before continuing.



Ideally you should position your boat stern-to the dock, and work from there. You will need an electric drill, a 3/8" diameter drill bit suitable for use on your hull, teak or synthetic shim blocks and means to shape them to your hull. Backing plates inboard of the mounting brackets are recommended.

Bolt the rudder post (F) to the rudder (E).

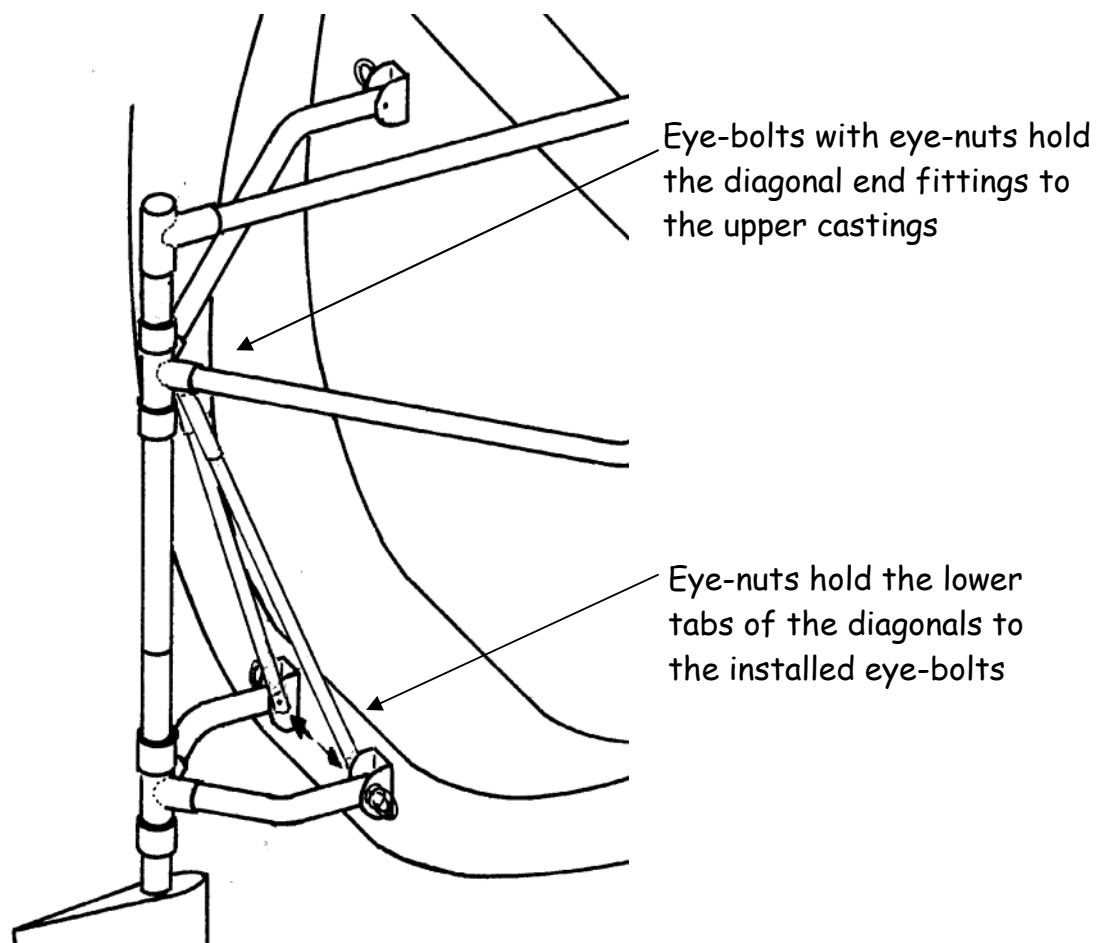
Locate the engraved letters near the ends of the mounting tubes and on the castings on the rudder post and rudder. Stand the assembly upright and slip the upper tubes (A & B) and the lower tubes (C & D) into the sockets of the castings, and fasten loosely with the supplied bolts. The transom mounting brackets with their eye-bolts are already fitted to the forward ends of the mounting tubes. Note that the brackets are free to tilt forward & backward to accommodate the slope of the transom. Sling the SOS Rudder from a tackle and position it against

the transom where shown in the supplied mounting drawing. Determine the shape of the teak blocks required to shim the brackets so they remain horizontal and aligned with each other - the eye-bolts bolts can then act as hinges during installation. Shape the blocks and mount them between their brackets and the transom, in pairs - top first, then bottom. It will be necessary to remove and reinstall the brackets from their mounting tubes during this process.

After the brackets are installed, fit the upper mounting tubes to their brackets with eye bolts and ensure that the unit can 'swing' downward, bringing the lower mounting tubes into alignment with their brackets.

Additional instructions for diagonal braces

If diagonals have been supplied with your unit it's now time to fit them. You will have received a pair of extra-long eye-bolts with eye-nuts for the receiving mounting brackets and another pair for the bolts holding the upper mounting tubes to their castings. One side at a time, remove the eye-nut from the bolt holding one upper mounting tube to its casting. Put the end fitting tab of one diagonal onto the bolt end, and loosely re-attach the eye-bolt. Put the tab end of the diagonal onto the eye-bolt end protruding from the lower 'U'-bracket and fit the eye-nut. You can now tighten all the nuts.



FINAL SET-UP

Fit the tiller or yoke to the top of the upper rudder post and check its swing. The unit is mounted.

STORING THE UNIT

Remove the tiller and four bolts holding the mounting tubes to the brackets.

Remove the mounting tubes from the rudder post fittings. If any mounting tubes (upper or lower) are short enough to store attached, they may be left bolted to their rudder post fittings.

Dismount the rudder post from the rudder by removing the lower of the two bolts at the joint between them.

Store in the supplied bag.

INSTALLATION

Mount the rudder post to the rudder.

Bolt the mounting tubes to the rudder post castings, matching their letters.

Sling the unit into place using a tackle, and loosely bolt the upper mounting tubes into their brackets. Lower into place, guiding the lower mounting tubes into their brackets. Bolt all tubes firmly to their brackets.

If appropriate, fit the diagonals as described.

Bolt the tiller or yoke to its upper casting.

HELPFUL HINTS

Practice mounting the unit before you leave port.

Use a safety harness and bosun's chair when installing the SOS Rudder - don't take chances.

The orange storage bag has two eye-straps on it, and can be used as an emergency distress flag.

REMEMBER - THE SOS RUDDER IS AN EMERGENCY SYSTEM DESIGNED TO GET YOU TO THE NEAREST PORT. DO NOT ATTEMPT TO CONTINUE TO RACE OR CARRY A HEAVY PRESS OF SAIL!