

## MOTOR-MATE™ INSTALLATION

### LOCATION ON SAILBOATS

The most popular location is at the stern pulpit. Please keep in mind, during use there will be a side load (At 90° to the vertical axis) equal to about 75% of the lifting load. That is the reason for the lifting limitation warning on the Motor Mate™ arm.

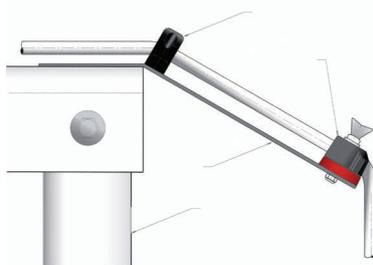
The strongest points on a stern pulpit are the curved corners. Therefore, the preferred installation location is either of the two curved corner areas. The weakest area of the pulpit, and therefore the least desirable, is at the forward ends of the pulpit or near the centre of the pulpit particularly if it is discontinuous and has a centreline opening for access to a stern ladder. If it is desirable to strengthen your pulpit to meet your load requirements, Forespar® offers a support strut that can be installed with just an electric hand drill and a screwdriver. See separate illustration and order information.

After determining the location, install the Railfast® support ring to the upper horizontal pulpit tube. Please see separate installation instructions for this support fixture. The support ring may be on the inside or outside of the pulpit. The choice is determined by the suitability of the placement point of the universal ball base fixture. For proper operation of the Motor Mate™ this base fixture must be vertically plumb below the support ring. Fasten this base fixture with four stainless steel round head screws, or if preferred, bolts. This fixture can be mounted to an angle to the vertical, this is the reason for the ball design. If you wish you may cut off the bottom on the lower 2" round tube to match the angle of the base plate, however, this is not really necessary. It is not intended that the ball be removed from its base when the Motor Mate™ is stowed away.



### LOCATION ON POWER BOATS

The Motor Mate™ can be located on the outside of the transom or inside of the cockpit at the railing. If your cockpit is surrounded by a bulwark with a narrow deck-like shelf you can cut a 2 1/8" hole for the Motor Mate™ column to pass through and place the base fixture on the cockpit sole plumb below the hole. If there is a tubular rail above the bulwark you should use the Railfast® support ring, see separate instructions. If you prefer to mount the Motor Mate™ on the outside of the transom, through bolt the ring portion of the Railfast® upper support fixture to the transom as high above the swimstep as possible but no more than 40". You may wish to spread the load by placing a small plate or large washer under the ring flange. If your boat does not have a swimstep, mount this fixture on a metal angle plate or teak block.



## MOTOR-MATE™ INSTALLATION cont.

### GENERAL ASSEMBLY INSTRUCTIONS

The piece of adhesive backed "Wear Tape" is to be fixed to the Motor Mate™ column where it engages the upper support ring. Reeve the 1/4" blue lifting line as follows:

Pass one end of the line through the 9/32" hole closest to the outer end of the lifting arm, from the underside, then back through the other hole and tie a knot. Be sure it's a good knot because its failure could put your load in Davy Jones's Locker. Now pass the other end of the line through the block, then over the arm sheave that has the slot under it, through the block again and then over the arm sheave and back to the cleat. Pass the line through the legs of the cleat. This is done so that when pulling on the line there wont be a force trying to rotate the arm to the side.

We have angled the cleat to facilitate this arrangement. The angle support for the lift arm would normally be pinned to the lower hole in the in the column so the arm is horizontal. If this does not give you sufficient height to clear the load over the railing, increased height may be achieved by pinning the angle support in the higher hole.

Because of the many varied configurations of outboard motors we do not provide a lifting sling. Its design and method of attachment must be your responsibility. We do have a suggestion that works well on many outboards. However, **WE DO NOT ACCEPT RESPONSIBILITY** for its use and performance. Obtain some vinyl coated 3/32" 7x19 stainless steel rigging wire. Six feet should be enough for most applications. Also, obtain two 5/32" Nico Press sleeves and one 3/32" Nico Press sleeve. Pass the wire through one side of the two 5/32" Nico press sleeves then loop back through the other side of the sleeves, **DO NOT CRIMP**. Strip 1/2" of the vinyl off each end of the wire, insert into the 3/32" Nico Press sleeve and crimp the sleeve. You will now have a figure eight assembly as shown below. Slip one loop over the front of the outboard and the other loop over the back. Slide the larger Nico Press "Sliders" down against the outboard to "choke" each loop. The centre portion of the figure eight assembly passes through the shackle on the Motor Mate™ lift block. The size of your "Figure Eight" should be such that the lift point is only a few inches above the outboard housing, but big enough to get on and off the motor.

