

YACHT

INSTALLATION INSTRUCTIONS

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YACHT SPECIALTIES COMPANY, INC.

INSTALLATION INSTRUCTIONS

INSTALLING YOUR PEDESTAL STEERER

With the desired location for the pedestal steerer established and the below deck components at hand, check the

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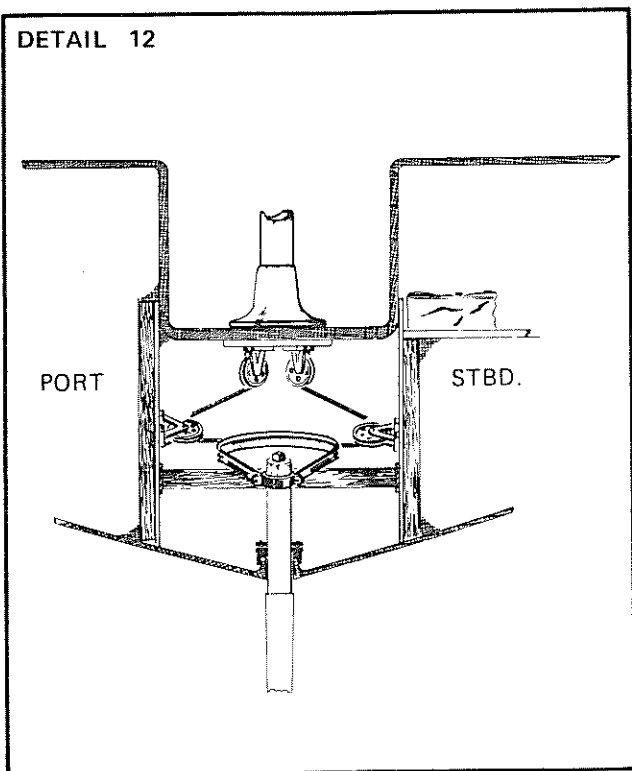
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If the Figure 411 sheave assembly is not to be used, suitable mounting surfaces for separate Figure 400 sheaves must be provided. If there is an existing bulkhead such as the inboard side of a quarter berth, this makes a good surface for the installation of the Figure 400 sheaves. In all probability it will have to be re-inforced as shown in detail #12, stbd. side. If no bulkhead exist, supports of well seasoned wood—about 2" x 8" and long enough to lap the cockpit sides and go down to the hull—must be installed. These should be bonded in place according to good fiberglass practices. (See Detail #12—port side) The Figure 400 sheaves are now ready for alignment and installation. Using "C" clamps, clamp the outboard sheaves to the sheave supports. (See Detail #13)

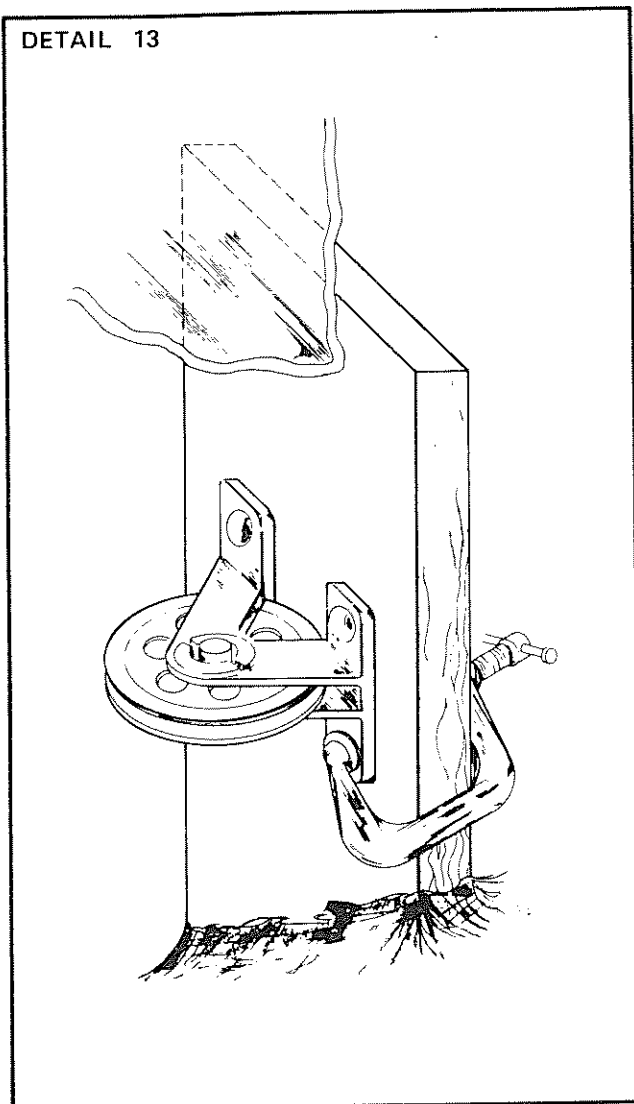
DETAIL 12



A length of chalk line or small nylon braided line may now be threaded down through the Figure 410 idler plate, around the Figure 400 sheaves and into the grooves of the quadrant and secured to the ears on the quadrant cap. Relax the "C" clamp and adjust the outboard sheaves and the idler sheaves so that the cord enters and exits the grooves in the sheaves and quadrant with no chafing on the sides of any of the grooves. Do this aligning carefully as it is essential to long sheave and cable life and to the freeness with which the system will work. When properly aligned tighten the bolts and flange nuts on the Figure 410 idler plate and drill for and install mounting bolts in the outboard sheave bases. A spreader bar between the upright mounting surfaces is a good idea. By making the spreader out of a piece of angle iron with end plates to fasten it to the uprights, you can incorporate a quadrant stop and the spreader bar into one. See Detail #17 on quadrant stop suggestions.

If the Figure 411 assembly is used, the same care in alignment must be exercised. Once aligned, tighten the stainless steel cap screws holding the sheaves on each end of the assembly.

DETAIL 13



FINAL INSTALLATION OF THE PEDESTAL

With the alignment of the sheaves completed the pedestal may now be finally installed. To facilitate the threading of the steering cables, lead a pair of cords down through the column of the pedestal—one on either side of the sprocket shaft—and through the Figure 410 idler plate making sure there is no twist in the two cords. This is also the time to install a binnacle light wire through the pedestal column. If an engine control is to be installed on the pedestal, the two control cables should also be led through the proper opening in the idler plate and up through the pedestal column—one on each side of the shaft. The binnacle light wire may be taped to one of the control cables.

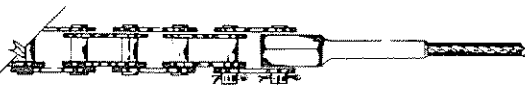
Apply bedding compound to the pedestal base and under the bolt heads and firmly secure the pedestal and the Figure 410 idler plate to the cockpit deck.

INSTALLATION INSTRUCTIONS

INSTALLATION OF STEERING CABLES

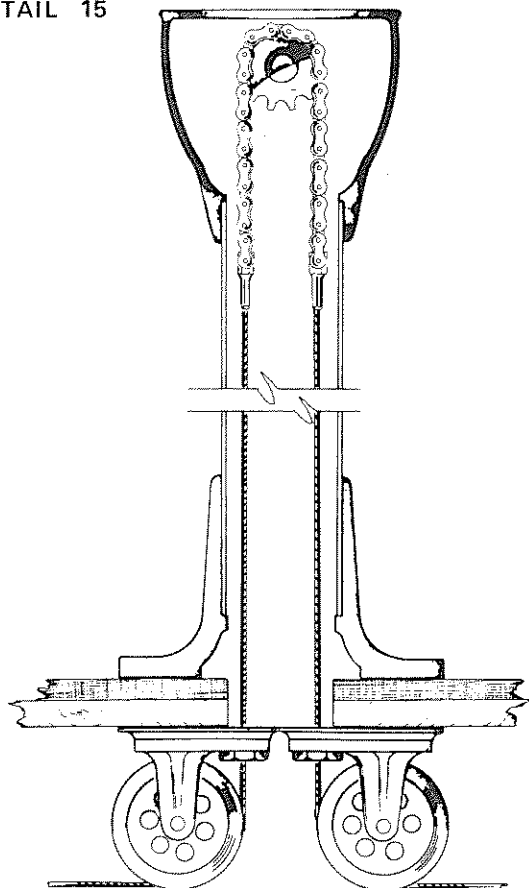
Make sure you have ample length cables for the system. We recommend 7 x 19 stainless steel cable. Use 3/16" or 7/32" diameter cable on 4" diameter sheaves and 1/4" diameter cable on 6" diameter sheaves. Using large diameter cable around small diameter sheaves will greatly shorten cable life. Proper cable to roller chain connectors must be applied to one end of each cable. We recommend our Figure 424 connectors and we will attach them to your cables when the system is ordered. Connect one cable to each end of the roller chain with a connecting link—our Figure 421 (See Detail #14).

DETAIL 14



At this time tie a piece of string around the link in the very center of the chain length. This will help you in centering the chain when the final connections are made. With masking tape, tape the upper end of the cords led through the pedestal to the ends of the steering cables and carefully pull the cables down through the pedestal column and through the Figure 410 idler plate. (See Detail #15)

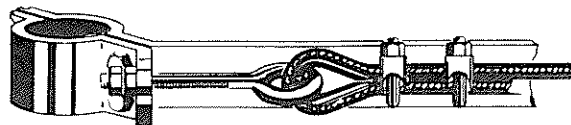
DETAIL 15



Next, thread the cables around the outboard sheaves, into the grooves of the quadrant and through the eyes of the eye bolts in the ears of the quadrant. Be sure to use a thimble in each eye bolt. Making sure the chain is centered on the sprocket and the quadrant is centered fore and aft, secure the cables at the eye bolts with 2 cable clamps. (See Detail #16)

The eye bolts may now be adjusted to take all slack out of the cables. Do not set the tension of the cables too tight so as to make the steering stiff. Make sure the locknut on the eye bolt is tightened after final adjustment is made.

DETAIL 16



INSTALLATION OF QUADRANT STOPS

Quadrant stops are a very important part of your steering system. They should be installed securely so that they limit the swing or travel of the quadrant to prevent damage to the sprocket teeth in the steerer or damage to the hull or rudder fittings. The stops should be installed so that the chain stops traveling before the cable connectors contact a sprocket tooth.

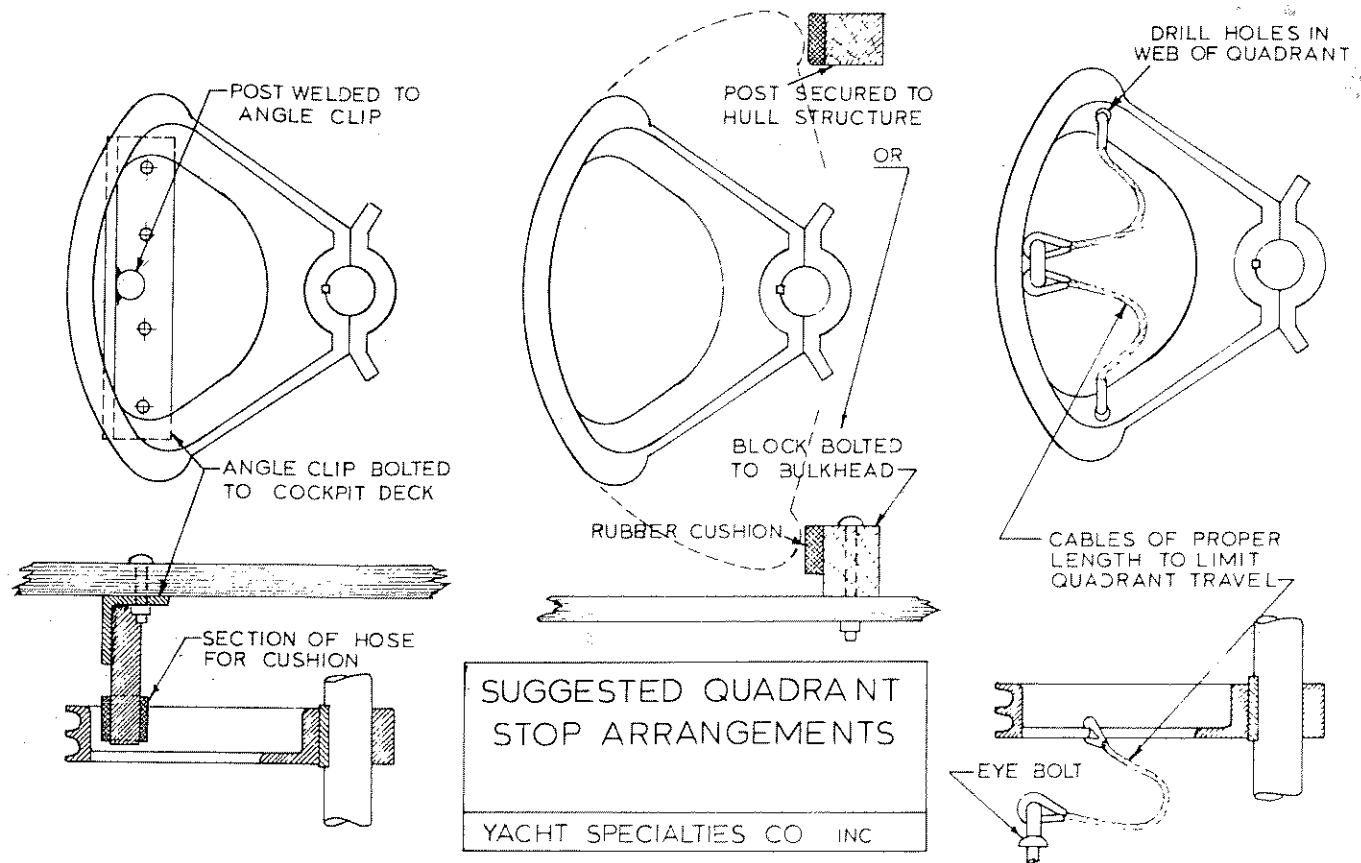
If our Figure 411 assembly is used in the system, a quadrant stop is an integral part of the assembly. If separate outboard sheaves are used, a suitable stop arrangement must be created and installed. Detail #17 shows suggested quadrant stops.

MAINTENANCE OF THE SYSTEM

After a short period of use the tension of the cables should be checked and adjusted and all nuts and fastenings should be tightened if necessary. This should be done seasonally.

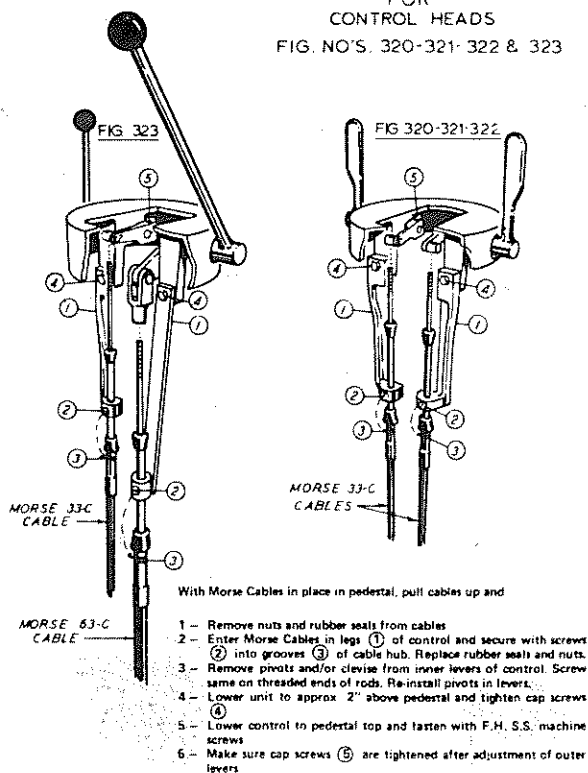
The shaft bearings in the pedestal have been lubricated at the factory. No particular damage can result from lack of lubrication but we recommend a few drops of oil at the front and rear bearings once or twice a season or as needed. This can be done by removing the compass and at the same time apply a light amount on the roller chain while turning the system from hard over to hard over. The sheave bearings are of prelubed type but should be oiled three to four times a season to prolong their life.

DETAIL 17



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INSTALLATION INSTRUCTIONS FOR CONTROL HEADS FIG. NO'S. 320-321-322 & 323



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SUGGESTED INSTALLATION DETAILS STUFFING BOXES—RUDDER SHAFT BEARINGS—EMERGENCY TILLERS

