TIDES MARINE

URB-LP Installation Overview

The following is a brief description of the installation procedures associated with the URB-LP. Installation instructions are included with each unit and should be followed closely.

- Shelf FRP support ting
- 1. Block the rudder securely in position.
- 2. Remove steering arm and quadrant from rudder stock.
- 3. Disconnect rudder collar and remove.
- 4. Remove existing rudder bearing.
- 5. Slide the URB-LP onto the stock and into position on the rudder shelf.
- 6. Using the unit as a template, trace the diameter of the base onto the rudder shelf so that a clearance hole can be cut.
- 7. Remove the unit and, using a jig saw, cut a clean hole through the rudder shelf.
- 8. Align/rotate the URB-LP so that new bolt holes can be drilled through the shelf. If necessary, Tides has backing plates available for additional strength.
- 9. Drill through the shelf using the "bushed" installation holes in the URB-LP as a template.

- 10. Apply a bed of medium-bodied, filled epoxy or Chockfast® to the barrel of the unit below the flange and place in the hole in the rudder shelf. Align the unit with the pre-drilled holes in the shelf and secure it to the rudder shelf using stainless steel bolts which are sized to match the "bushed" holes in the URB-LP. Do not under size. Large fender washers or a backing plate should be used against the bottom of the rudder shelf. Tides has backing plates available for extra strength.
- 11. Reposition the rudder collar so that it rests upon the flat surface of the ball-type bearing in the URB-LP and secure. Use washers, as neces sary, to align rudder collar with original set screw "dimples".
- 12. Remove the blocking from the rudder and verify that the rudder swings freely.
- 13. Reassemble the other steering components.

NOTE: To be properly installed, the "barrel" portion of the URB-LP must be at least 50% supported. See diagram above right for detail.

