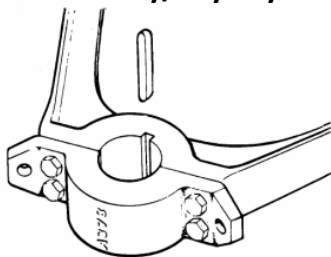


## Installation Instructions

Quadrants, Radial Drive Wheels, and Tiller Arms

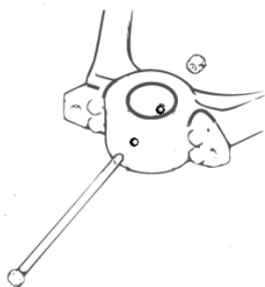
All Edson Quadrants, Radial Drive Wheels and Tiller Arms are machined to a  $-.003''$  to  $-.005''$  clamping tolerance from the rudderpost diameter provided when ordered. Although this provides a very tight fit, it is not sufficient to keep the hub from turning on the rudderpost in extreme rudder load situations. Therefore, a mechanical fastener must be used to keep hub from turning.

### Shaft Key/Keyway



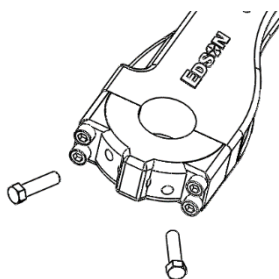
**Shaft Key/Keyway:** Most common on solid rudderposts. This allows for some adjustment up and down on the rudderpost. Check to see if there is an existing keyway on your rudderpost. The locations of both keyways must match up to the final position required.

### Through-Bolt (pinned)



**Through-Bolt (pinned):** Most common on hollow rudderposts. Edson will supply the appropriate sized pin for the rudderpost diameter. When a Quadrant, Radial Drive Wheel or Tiller Arm is supplied with a through-bolt, Edson drills through  $\frac{1}{2}$  of the hub only. When the final location of the part is determined on the rudderpost, this hole is to be used as a guide to drill through the rudderpost and opposite side of the hub. The opposite side of the hub is not pre-drilled by Edson, since it is very difficult to match this hole location during the actual drilling process.

### Set Screws



**Set-Screws:** An alternative to keyway or pin method. Works for both solid and hollow rudderposts. Clamp the Quadrant, Radial Drive, or Tiller Arm to rudderpost in the proper location. Use one of the pre-drilled holes as a pilot hole to drill into your rudder post with a  $\frac{5}{16}''$  drill bit. Then, using a  $\frac{3}{8}''$ -16 blind tap, tap the part and the rudder post together at the same time. Install set screw and repeat on the other side. The set screws must be threaded into the rudderpost to a depth equal to the diameter of the set screw. Simply tightening them down on the rudderpost is not sufficient and could damage your Quadrant, Radial Drive, or Tiller Arm.

**NOTE:** Turn wheel hard over to one side or the other for more working room when drilling the rudderpost. Use a tapping grease when drilling stainless and metal rudderposts.

**Warning: Contact your boat builder before drilling or modifying a composite or carbon rudder shaft**