

# TIDEMARINE

## SureSeal™ System

### Spare Seal Carriers

**Original Installation**  
Pages 1 & 2

**Lip Seal Replacement**  
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### Original Installation of the Carrier

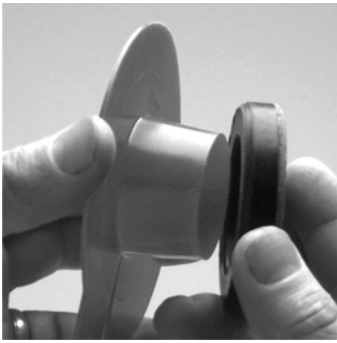


- 1 Determine where the Spare Seal Carrier will be located on the shaft (minimally 1" from the SureSeal™).

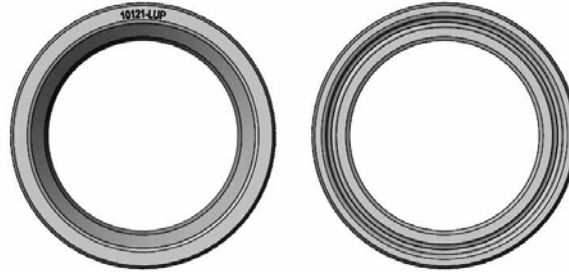
Be certain there are no keyways, nicks or corrosion in this area of the propeller shaft.



- 2 Separate the two halves of the carrier kit by removing the Phillips head screws. Remove the spare lip seal (s).

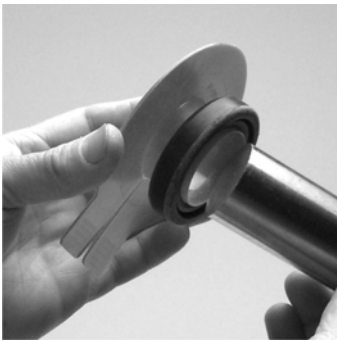


- 3 Carefully press each spare seal onto the tapered cone of the red installation hat - **smooth side first** (smooth side contains the part number on the surface).



Smooth (flat) side

“Spring” side



- 4 Slide the red installation hat and seal(s) onto the shaft as shown — seal side first.



- 5 Remove the red installation hat and confirm that each seal is facing the same direction as the lip seal in the SureSeal™ unit.



- 6 Reassemble the spare seal carrier over the lip seal(s) and around the propeller shaft. The “long” shoulder on the carrier kit should face away from the SureSeal™.



- 7 Make sure that the carrier kit is at least 1" from the front of the SureSeal™ and tighten the assembly screws. If properly installed, the carrier kit should grip the propeller shaft tightly and turn with the shaft during vessel operation.

## Replacing the Lip Seal

**Before you begin:** Inspect the exposed shaft surface between the spare seal carrier and the SureSeal™. Make sure it is clean and free of any nicks or burrs which might damage the spare (replacement) seal. If necessary, polish this portion of the propeller shaft using 300-330 grit wet-dry sandpaper or emery cloth. Work “around the shaft”, not fore and aft.



- 1 Remove the screw from the spare seal carrier and separate the halves, exposing the spare (replacement) lip seal(s) within.



- 2 Remove the five screws from the front of the SureSeal™ housing.



- 3 Slide the front cap forward and over the replacement lip seal.



- 4 Separate the black plastic split retaining washer and remove it from the shaft.



- 5 Using a flat blade screwdriver, pry out the old lip seal from the SureSeal™ housing. Work on alternate sides of the worn lip seal as you move your way around the outside diameter of the worn lip seal. When it is out of the housing, use diagonal pliers and cut it off the shaft.



- 6 Carefully slide the new lip seal down the shaft and into the chamfered opening in the front of the SureSeal™ housing.



- 7 Return the split retaining washer to the shaft just in front of the lip seal.
- 8 Snap the split retaining washer into its recess in the cap. Slide the cap against the replacement seal.



- 9 Align the holes in the cap with those in the collar on the SureSeal™ housing. Alternately tighten the screws in a crisscross pattern.

**Caution: These screws should be hand-tightened.**

This step presses the replacement lip seal into the SureSeal™ housing. The replacement lip seal is properly seated when cap and housing touch.

- 10 If the spare seal carrier contained two lip seals, the spare seal carrier housing should be reassembled over the remaining lip seal as before. Position it in its original location and tighten assembly screws fully.