



## Work card 10 306-01

### Fitting of propeller blade

Safety precautions	Man power	Tools
<ul style="list-style-type: none"> <li>● Engine stopped and blocked for start</li> <li>● Propeller shaft locked for rotation</li> <li>○ Propeller shaft locked for axial movement</li> <li>● Shut-off stern tube lubricating oil system</li> <li>○ Hydraulic power unit stopped and blocked</li> </ul>	<p>Working time: Approx 3 hours/blade</p> <p>Capacity: 2 men</p>	<p>Lifting tool Spanner for blade screw Lifting eye screw See plate 3 4510</p>
Data		Replacement and wearing parts
Plant specific data: Chapter 3 05 Tightening data sheet: Chapter 3 10		Plate no: 3 1505

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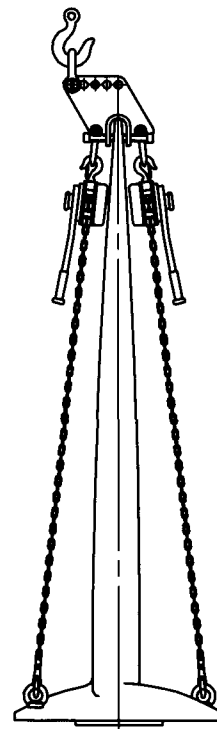
**Starting position:** Scaffolding etc prepared to achieve adequate working conditions.



### Procedure

1. Carefully clean and inspect hub, flanges, blades and sealing rings for any damage which may have occurred during either transport or handling at the ship yard. If there is any damage it must be repaired or new parts must be used.
2. Turn the propeller hub to position the blade base horizontal.
3. Place the o-ring and the flat sealing ring in the groove around the blade base.

**Fig 10.19**



**Lifting gear**

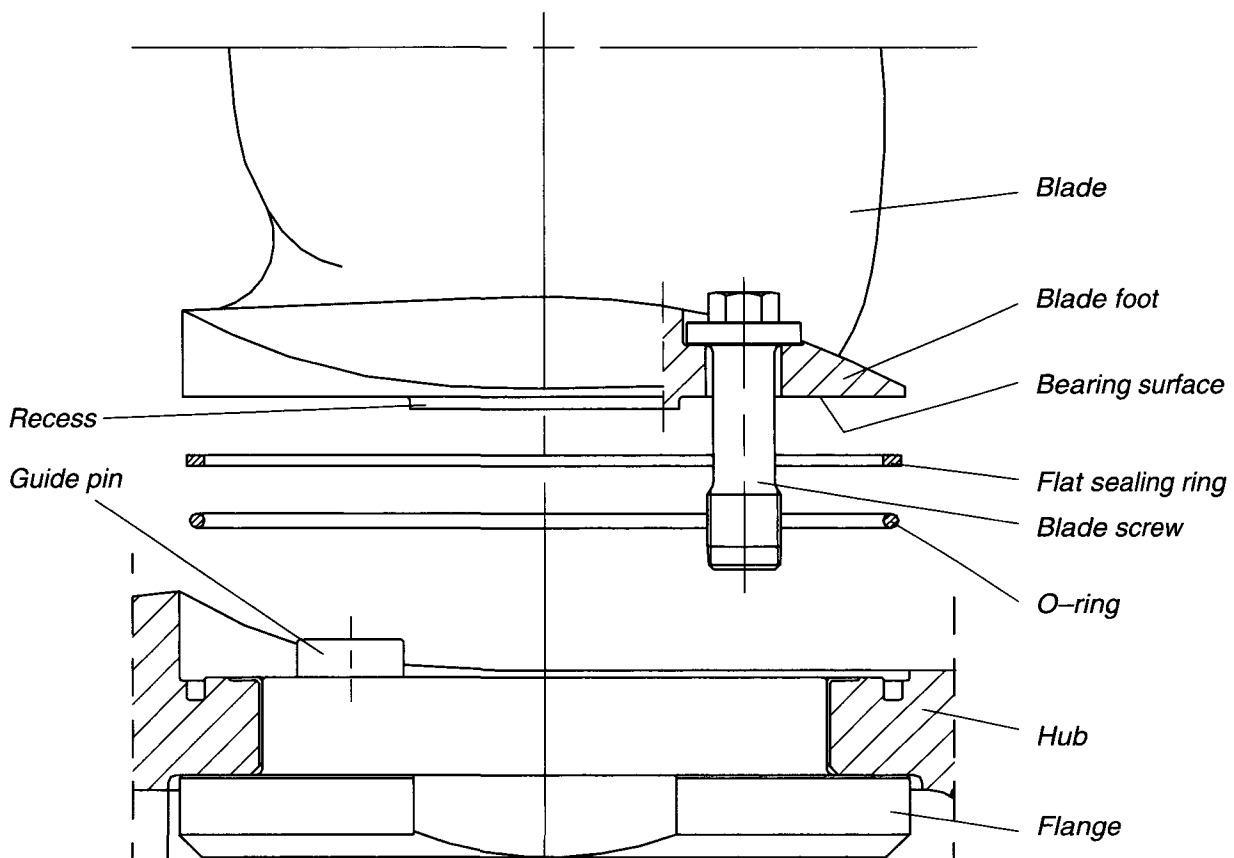
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4. Fit the lifting gear on the blade and lift the blade into position. The guide pin and the recess ensure that the blade is positioned correctly.

**Note**

Before lifting check that the weight does not exceed the SWL of the lifting gear/beam, see Plant specific data chapter 3 05 or the weight stamped on the blade foot.

5. Oil the top of the flat sealing ring and bearing surface, see fig 10.20.
6. Clean the blade screws and lubricate thread and contact face with a thin layer of MOLYCOTE GN+.
7. Follow the *Tightening instruction for screws* (chapter 3 10) in order to tighten the blade screws.
8. Fill the equipment with lubricating oil when all the blades have been fitted.
9. Inspect over as long a period as possible that the blade/hub connection is not leaking when the stern tube is pressurized from the stern tube lub oil tank.
10. Secure the blade screws by welding according to *Tightening instructions for screws 2036393-1* and *Tightening data sheet*.

**Fig 10.20**

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