

## Instructions for readjusting the gears of the Jefa RP200, 300 & 400 system.

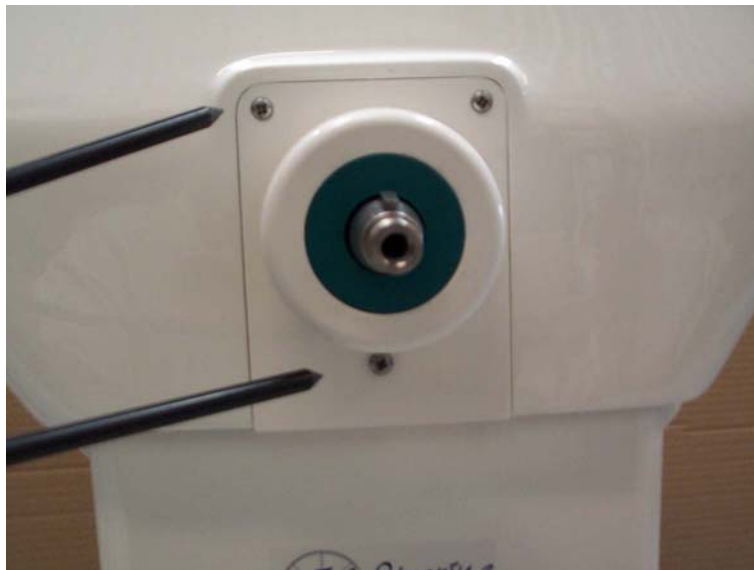
The rack and pinion gear of the Jefa RP200 and RP300 can be readjusted if any play should arise. Before you execute this instructions, please contact the factory and instruct them to sent additional shims to you as you will need them in the process.

Please make sure the backlash you are experiencing is really between the gears and not as a result of backlash in the rudder system or the rose joints. You can check this by letting somebody hold the wheel (don't use the brake) and moving the output lever underneath the pedestal forward and aft. If you feel backlash, it is gear backlash and you need to readjust the gears.

Please follow following instructions:



Remove the wheel and make sure the keyway is in the upright position.



Remove the three screws that hold the cover plate



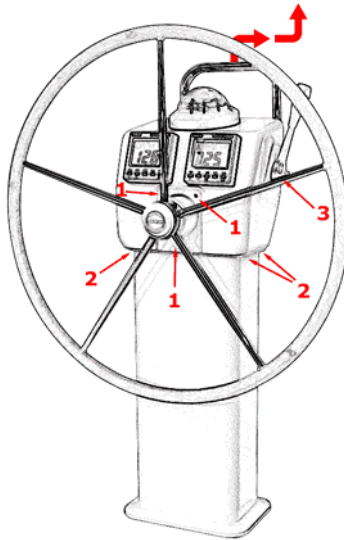
Remove the cover plate.



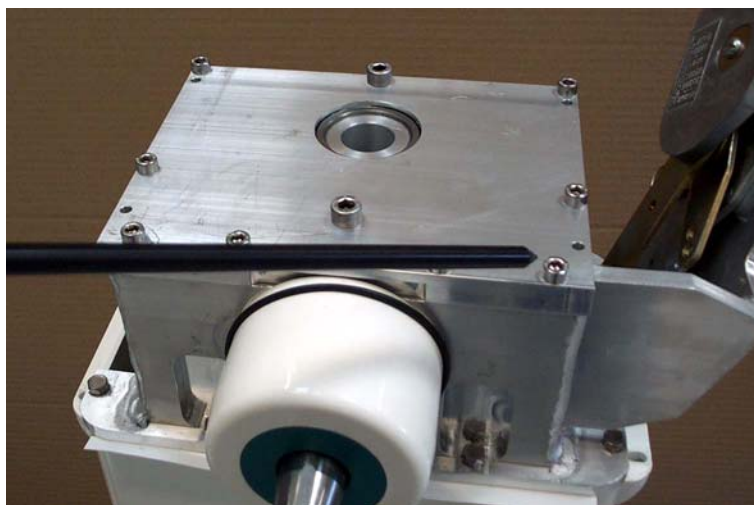
Undo the 2 Allan screws of the engine control handle and remove the handle.



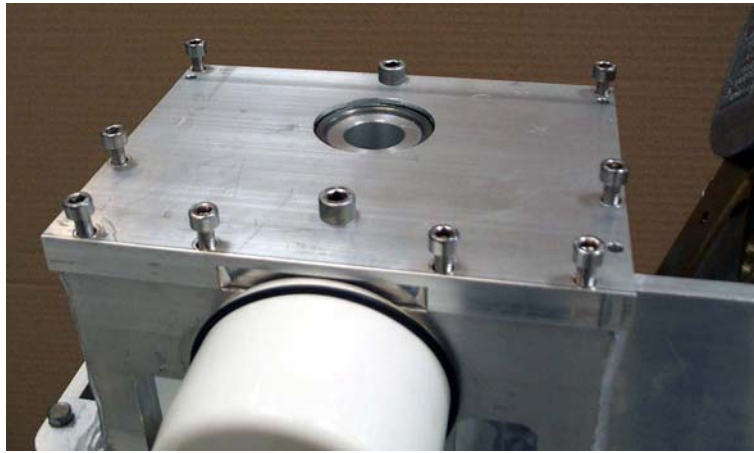
Undo the four (2 at each side) bolts that hold the head to the pedestal.



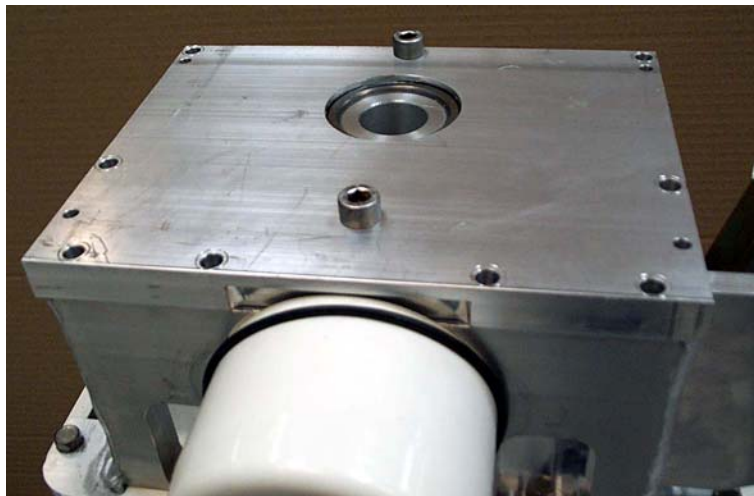
First lift the head up a bit and tilt it to the direction of the engine control, make sure the shaft goes through and continue going up again.



Remove all the small bolts as pointed.



These bolts should be removed.



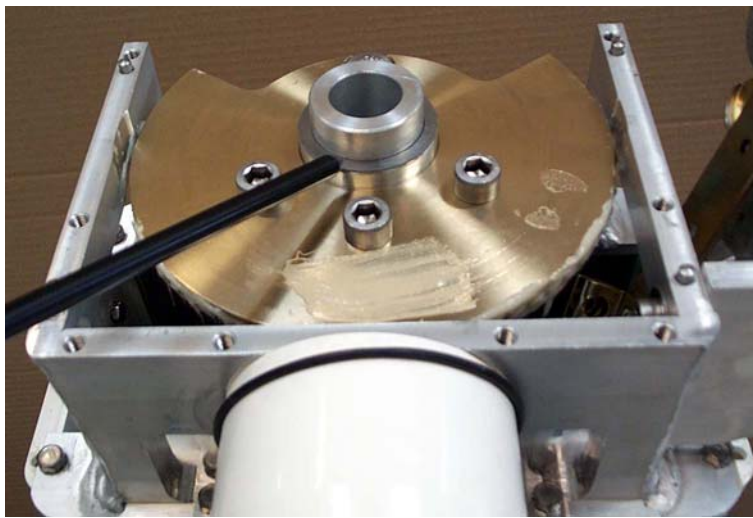
Don't remove the big bolts.



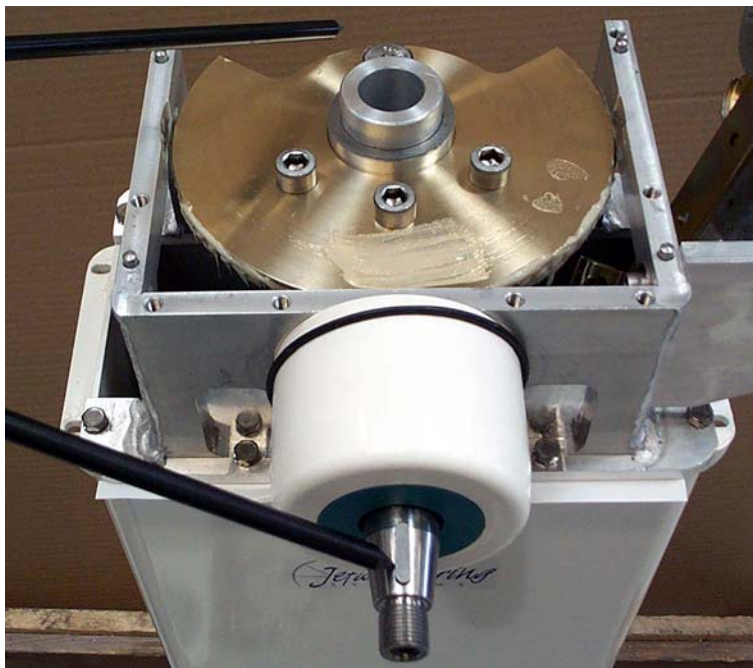
Lift off the top plate so the extra shim(s) can be added.



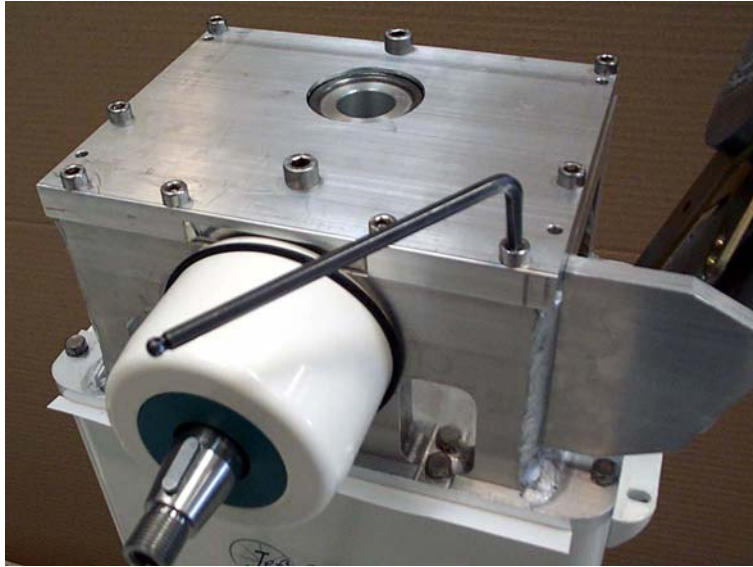
The shims that have to be put around the shaft, mostly only one shim has to be added.



The extra shim on it's place.



The pedestal can be assembled again, make sure the keyway is pointing upwards as the aft side of the quadrant would prevent the head to go on.



Tighten the bolts again and before you go any further, check the mesh for a good run by putting the wheel on and checking if it runs freely. Remind to put the key upwards at the end.



Put the head back on.



Put the engine control handle back on and tighten the 2 screws.



Tighten the bolts the keep the head on the pedestal.



Mount the cover plate and the three screws.

Address details for acquiring the shims:

Jefa Steering ApS  
Agenavej 43  
2670 Greve  
Denmark  
Tel: +45 46 155210  
Fax: +45 43 695211  
e-mail: [stig@jefa.com](mailto:stig@jefa.com)  
[www.jefa.com](http://www.jefa.com)