

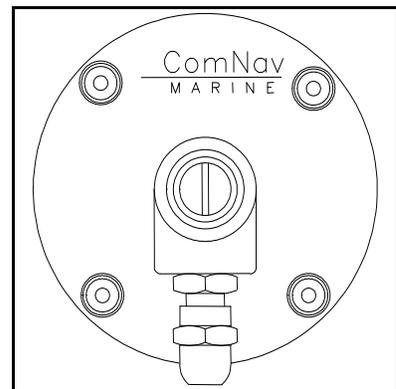
Medium Duty Rudder Follower Rebuild Kit

PN 20330009

Installation Brief, Document PN 29010041

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- 1) Remove the Main Cable Connector from the rear of the autopilot or disconnect the rudder follower leads in the autopilot distribution box.
- 2) Centre the rudder using the wheel (count turns from hard-over to hard-over, then count back half way).
- 3) Remove the arm from the rudder follower.
- 4) Remove the four screws that secure the lid and remove it.
- 5) Loosen the set-screw, which secures the potentiometer using a 5/64 inch Allen wrench and remove the potentiometer.
- 6) Remove the wires from the terminal strip, or if necessary, cut them off.
- 7) Remove the outer circlip and withdraw the shaft. Replace the 'O' rings, grease them generously and re-insert the shaft. Replace the circlip.
- 8) Using an ohmmeter, rotate the shaft of the potentiometer so that the resistance between each outer terminal and the middle terminal are equal (approx. 600 ohms each).
- 9) Connect the wires to the terminal strip in the same order they were originally.
- 10) Rotate the shaft of the rudder follower so the slot faces towards the cable gland.
- 11) Install a new grommet in the slot in the circuit board. With the grommet aligned with the anti-rotation pin, insert the potentiometer into the rudder follower shaft. Tighten the set-screw to secure the potentiometer.



**Figure 1 - MEDIUM DUTY
RUDDER FOLLOWER
SHAFT ALIGNMENT**

- 12) Recheck to see that the potentiometer remains electrically centred and adjust if necessary.

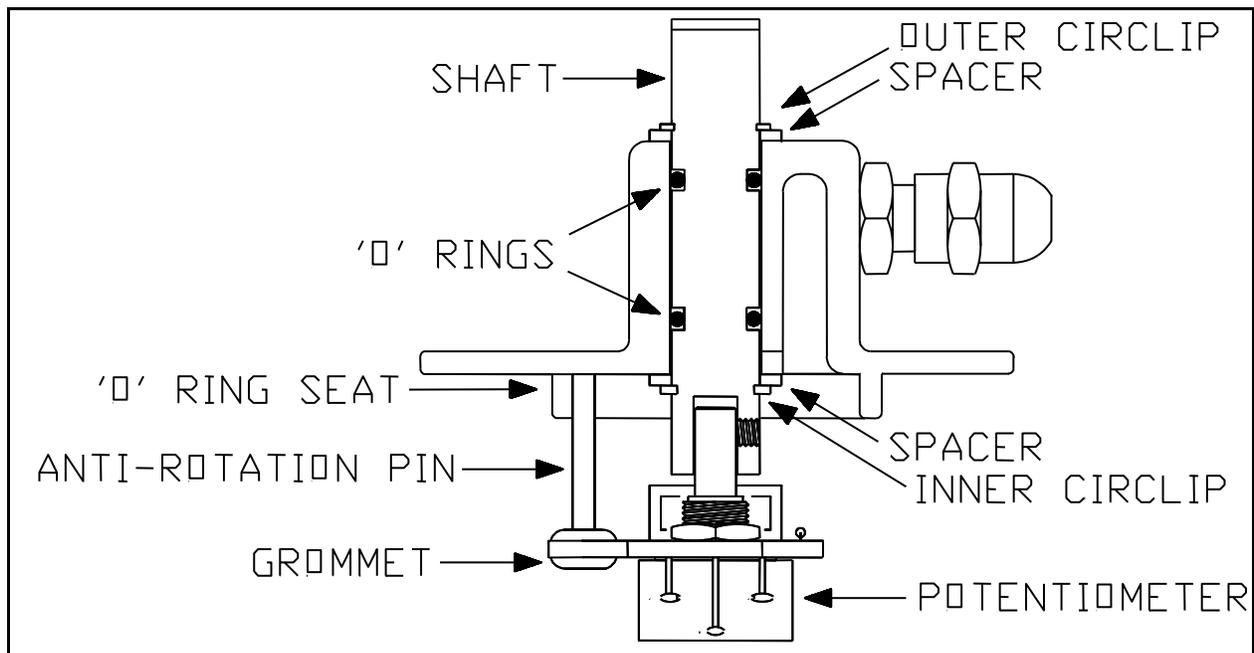


Figure 2 - MEDIUM DUTY RUDDER FOLLOWER LID ASSEMBLY

- 13) Install the new 'O' ring into the groove in the base of the rudder follower and grease it generously.
- 14) Reassemble the lid of the rudder follower to the base. If the 'O' ring pops out of its groove in the base of the rudder follower, remove the lid, re-seat the 'O' ring and re-assemble again. Screw the four lid screws in hand tight.
- 15) Reconnect the rudder follower leads in the distribution box or plug the main cable back into the autopilot.
- 16) Redo the Dockside Set-up (see the autopilot Installation and Operation manual) to confirm proper alignment of the rudder follower and to adjust the rudder limits if necessary.