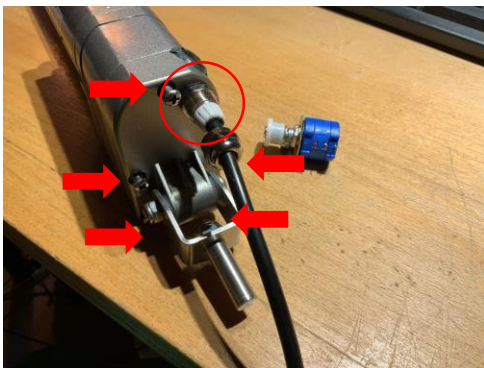


# Change of the potentiometer for the rudder position of a PCNautic actuator

This guide is based on a guide by Onno Harders from HLS Electronics BV . Onno allowed me to use his instructions. The pictures are self-made.

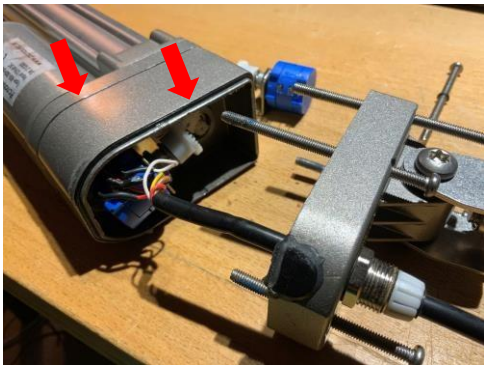
## Preparation:

1. The new pot is already ready, it is a Bourns 3590S-2-103L with 10kOhm
2. The actuator must be fully retracted.
3. The new potentiometer must be rotated before installation in such a way that 0 ohms (passage, no resistance) is measured between the outer pins (between red and white or. Pins 2 and 3, see connection scheme Bourns (<https://www.mouser.de/datasheet/2/54/3590-1989906.pdf>))



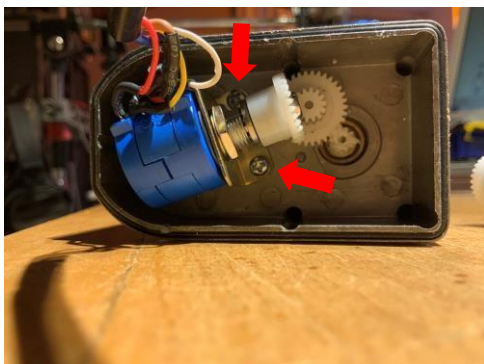
### Step 1:

- Screw on spout for supply line
- 5 cross-slot screws loosen



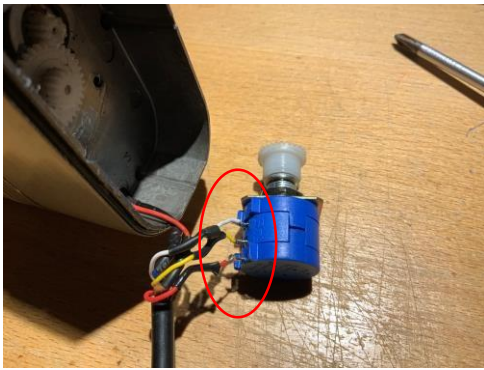
### Step 2:

- Carefully remove the cover while doing so get the supply line further out
- Make sure that the front part is not with loosens, because the screws hold both parts equally



### Step 3:

- Remove the two phillips screws that make up the Pot holder hold.



#### Step 4:

- After removal of the potentiometer solder connections.



#### Step 5:

- Solder new pot, if necessary, postpone new shrink tubing beforehand
- Note the connection scheme, see Doku PCNautik:

<https://pcnautic.nl/images/stories/virtuemarkt/product/Bare%20TillerDrive.jpg>



#### Step 6:

- Insert new potentiometer,
- Pay attention to the correct fit of the gears
- Tightening screws well.



#### Step 7:

- Reassembling the parts of the Aktuator,
- pay attention to the right position of the cables inside
- pay attention to the correct fit of seals
- At the end tighten the spout of the supply line