

# Replacing TQ1500 – TQ3700 Mechanical Seal

## 1. Removing mech seal.

WI-D3-S-B003E-1



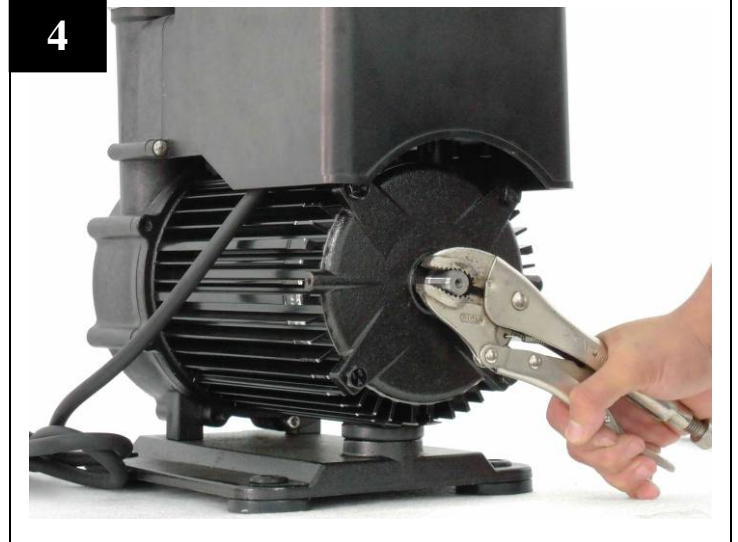
Using Allen wrench (metric size) to loose the screws and remove pressure tank.



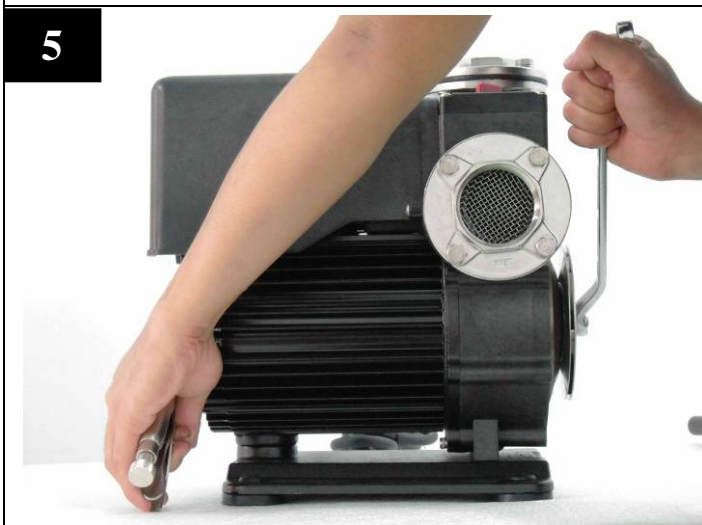
Loose the screws and remove the motor fan cover.  
(3-phase models do not have extension cable)



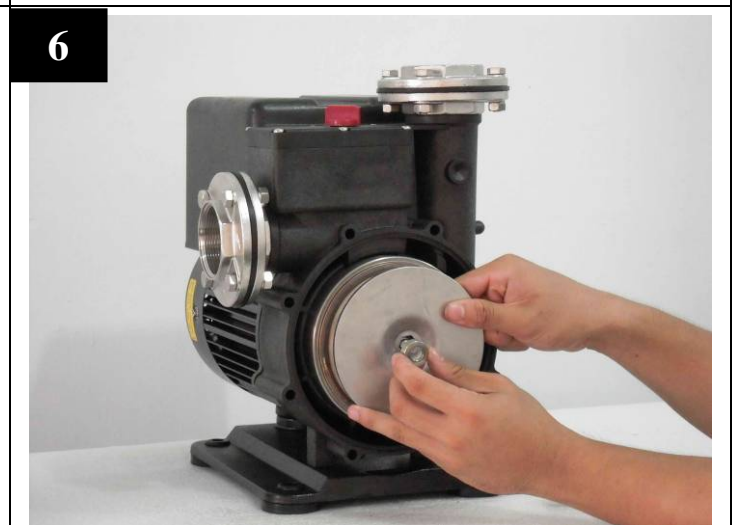
Using Allen wrench to remove the motor fan.



Clamp the motor shaft.



Using wrench to loose the stud bolt and remove impellers.



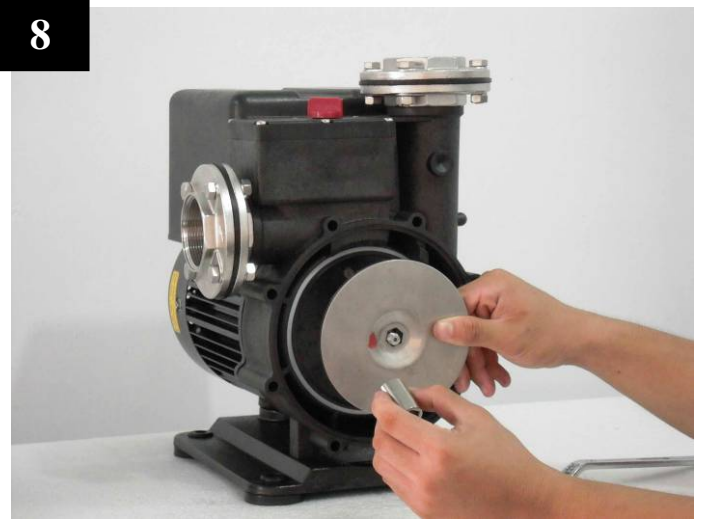
Remove the 2<sup>nd</sup> stage impeller and sleeve.

7



Remove the intermediate chamber kit.

8



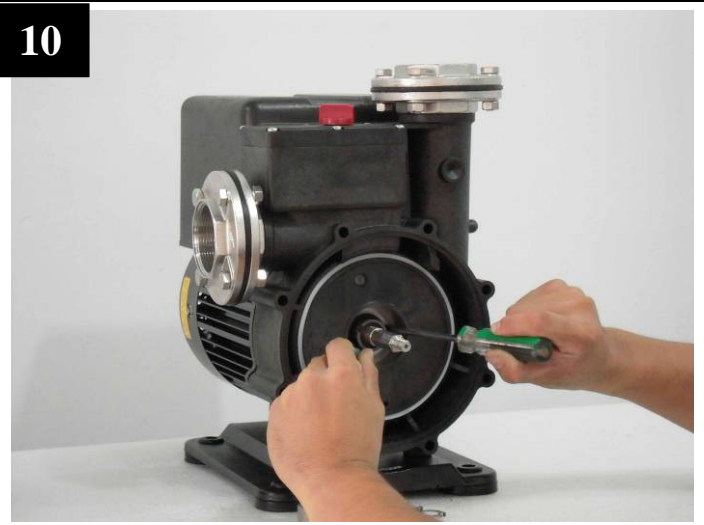
Remove the 1<sup>st</sup> stage impeller and sleeve.

9



Remove the sleeve, spring and washer.  
(refer the red circled parts)

10



Remove the rotary parts of mechanical seal

11



Remove the stationary part.

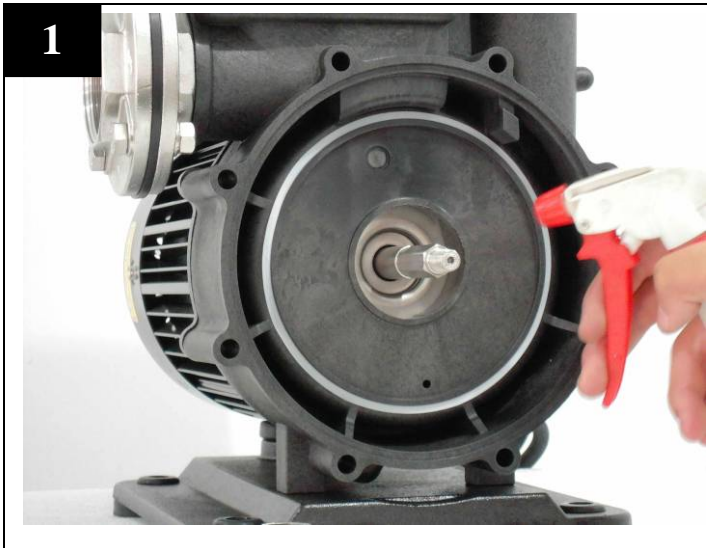
12



Remove the rubber from the stationary part.



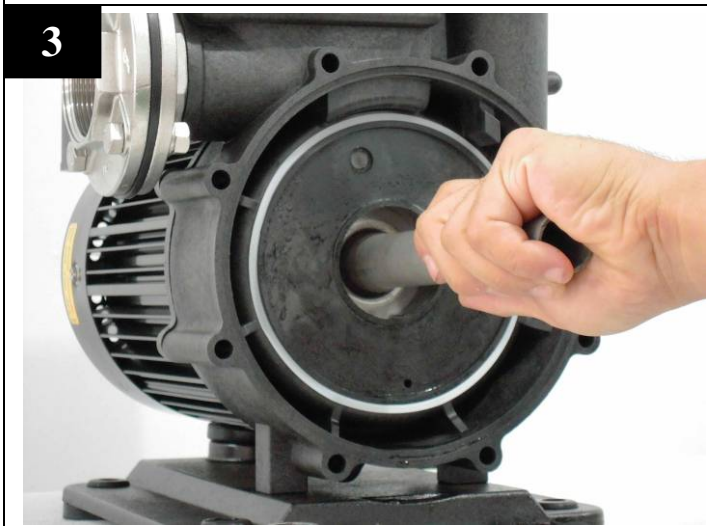
## 2.Assembling mech seal.



Spray water on the shaft.as lubrication



Place the stationary parts in position



Place in the stationary part



Before press in rotary parts, insert the sleeve through the hex shaft aligning the slots on sleeve to tabs on washer.



Remove the sleeve before press in rotary parts.



Press in rotary parts.



Place the spring onto rotary parts.



Place the sleeve in position.



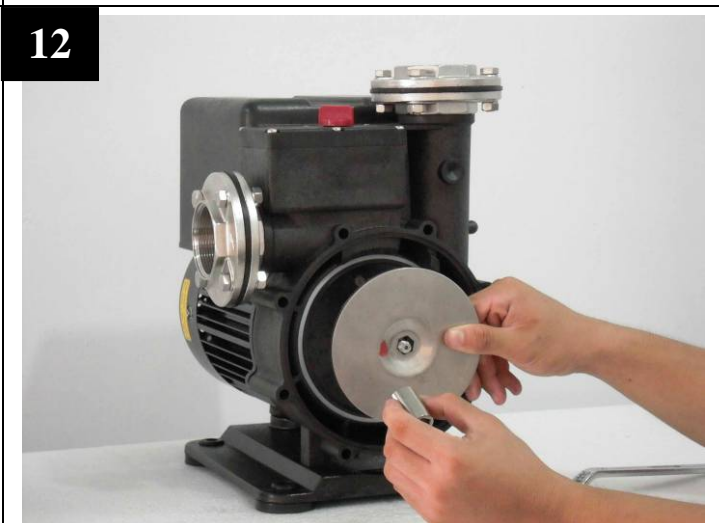
Identify the impellers – TQ3700, 2 impellers in same size, Parts# C022D0030001.



Identify the impellers – TQ2200, 1<sup>st</sup> stage, Parts# C022D0040006. 2<sup>nd</sup> state Parts# C022D0030001.



Identify the impellers – TQ1500, 1<sup>st</sup> stage, Parts# C022D0040006. 2<sup>nd</sup> state Parts# C022D0060007.



Install the 1<sup>st</sup> stage impeller and sleeve.



13



Install the intermediate chamber kit.  
(Make sure the white Teflon seal is in place).

14



Install the 2nd stage impeller and sleeve.

15



Using wrench to tighten up the stud bold.

16



Install the motor fan.

17



Install the motor fan cover.

18



Install O-ring onto pressure tank.  
(Make sure the groove holding O-ring is clean)

19



Install the pressure tank.  
(arrow on top position)

20



Tighten up the stud bolts.