

Replacing TQ400 & TQ800 Mechanical Seal

1. Removing mech seal.

WI-D3-S-B002E-1

1



Using Allen wrench (metric size) to remove the 6 screws.

2



Using wrench to remove the stud bolt.

3



Remove the 3rd stage impeller.
(Disregard the process for TQ400)

4



Remove the intermediate chamber and the chamber seat.
(Disregard the process for TQ400)

5

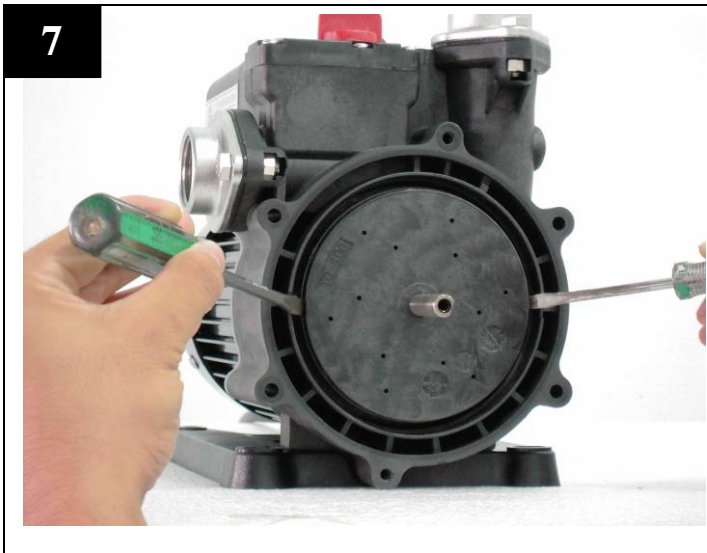


Remove the 2nd stage impeller.

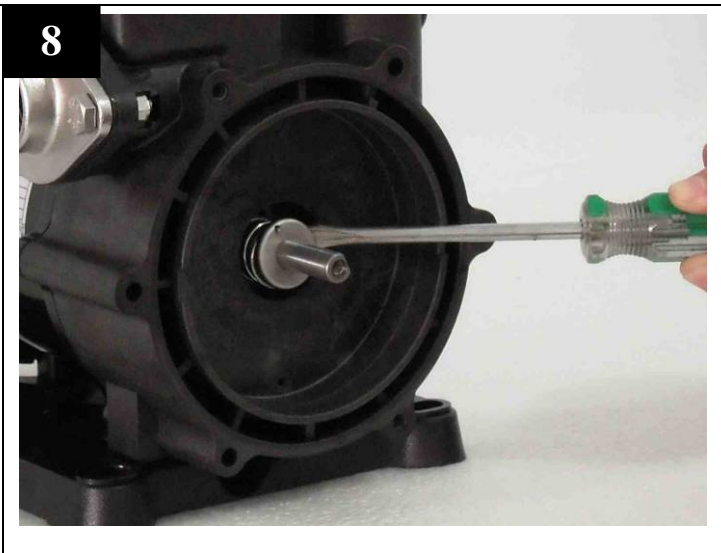
6



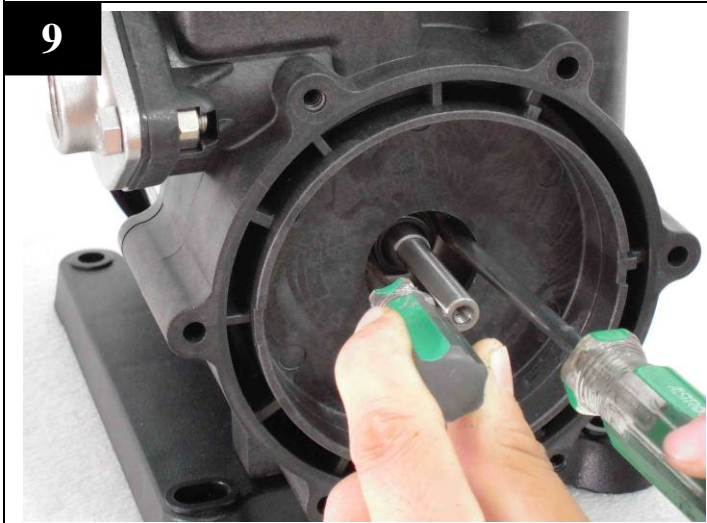
Remove the intermediate chamber.



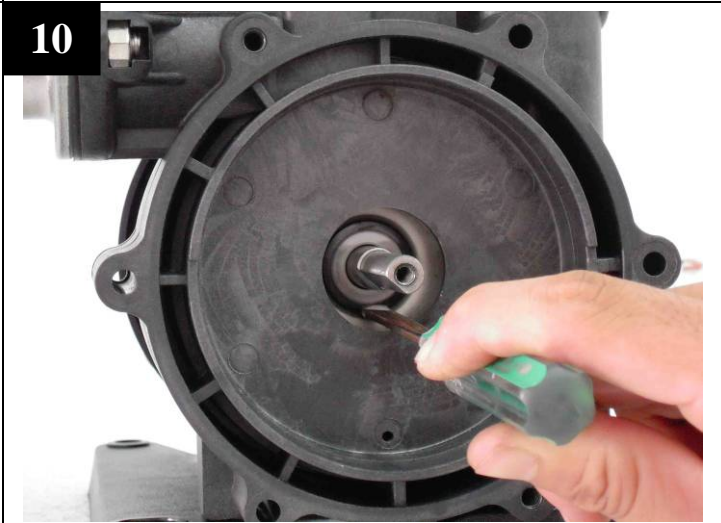
Remove the 1st stage impeller.



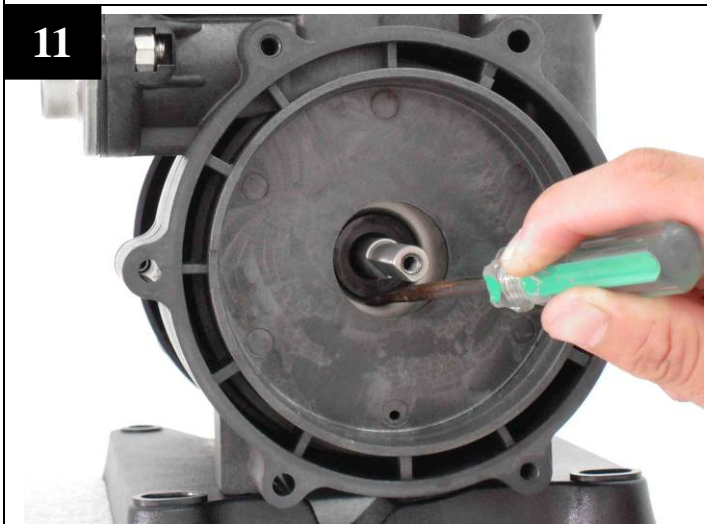
Remove the cap and spring.



Remove the rotary parts of mechanical seal.



Remove ceramic parts from mech seal kit.



Remove the stationary part (rubber) of the mechanical seal

2.Assembling mech seal.

1



Spray water on the shaft as lubrication.

2



Place the stationary part in position and press in.

3



Place the spring onto rotary parts.

4



Place the cap onto spring.

5



Press in the rotary parts.

6



Identify impellers – shorter shaft is the 1st stage while longer ones are 2nd & 3rd stages.

7



Assemble the 1st stage impeller.

8



Assemble intermediate chamber.

9



Assemble the 2nd stage impeller.

10



Install O-ring onto the intermediate chamber seat.
(Disregard the process for TQ400)

11



Install intermediate chamber and chamber seat.
(Disregard the process for TQ400)

12



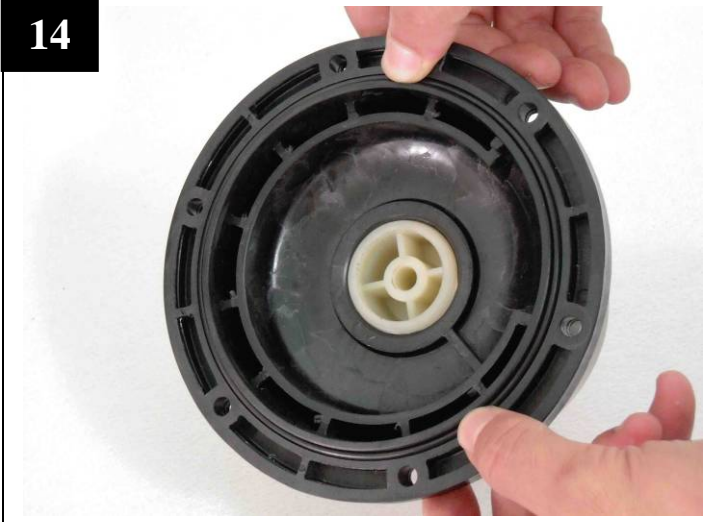
Install the 3rd stage impeller.
(Disregard the process for TQ400)

13



Tighten up the stud bolts.

14



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

15



Install the pressure tank
(arrow on top position)

16



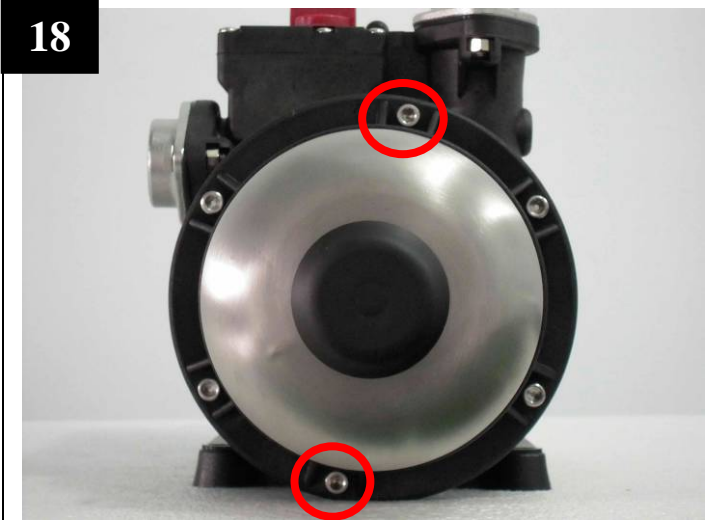
Identify different sizes of stud bolts.
TQ400 M6x30mm – 2 pcs, M6x88mm x 4 pcs

17



Identify different sizes of stud bolts.
TQ800 M6x55mm – 2 pcs, M6x115mm x 4 pcs

18



Install shorter stud bolts on the red circled places.

19



Tighten up the stud bolts.