

Replacing the Rotor & Stator (Screw pumps only)

A complimentary spare rotor and stator set is included with every Tuhorse screw pump package. If you do not have a spare set, please contact us or purchase one through our website.

Over time, the rotor and stator in your Tuhorse helical screw pump may wear out. Signs of wear may include reduced water flow on clear days or the low power light illuminating on the control box. If you notice these signs, please inspect the rotor and stator for scoring/wear.

Steps to inspect/replace the rotor & stator

1. Prepare a set of Allen keys, spanner/shifter and screwdriver
2. Turn off and disconnect the solar and pump power cables from the Control Box
3. Pull the pump up from your water source
4. Dismantle the pump assembly by following the below steps

Steps to remove and replace the Rotor & Stator set

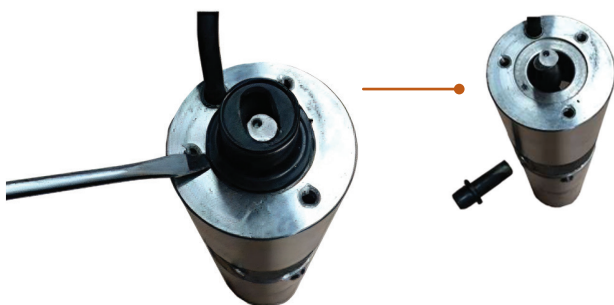
1. Tools required



2. Remove the top cover



3. Remove the rubber stator



4. Change both the Stator below and the replacement Rotor as they only fit as a pair.



5. Remove the mesh plate



6. Separate pump from motor



7. Remove grub screw *



8. To remove the rotor, rotate the rotor clockwise.



The rotor attachment is a **REVERSE** thread. Rotate the rotor clockwise to unscrew.

9. Reassemble as per this photo. Both nuts inside the rubber must fit tightly.



IMPORTANT NOTE:

When replacing the rotor from Step 9, do **NOT** overtighten it as it could prevent the rotor from turning properly.

* Grub screws in the flexible shaft serve as a safeguard against the rotor unthreading if the pump is accidentally operated in reverse. However, when the pump is running in the correct direction, the rotor naturally tightens itself during operation — meaning grub screws are not required under normal conditions.

For this reason, replacement rotor and stator assemblies are supplied without grub screws. If your pump has been working reliably up to now, it's already operating in the correct rotation. If needed, you can reuse the original grub screws from your existing setup.