



230 Series Motor Removal/Replacement

Tools & supplies needed: sockets- 7/16", 11/16", wrenches – 3/8", 7/16", 1/2", water pump pliers, 5/32" allen key, #2, #3 phillips screw-driver.

Supplied in kit: Motor, mounting straps, anti-seize compound, blue threadlocker, propeller pin, propeller washer, propeller nut.

Removal of Old Motor

1. Do not remove the motor in the water. **Note the orientation of motor on mounting bracket. We recommend taking a few pictures to help with reinstallation.**
2. Remove sealant covering screws on end cap, and using phillips #2 screwdriver remove end cap.
3. Cut away sealant inside end cap.
4. Remove cables from old motor.
5. Remove propeller and dowel pin from motor shaft.
6. Undo mounting hardware holding the motor to the mounting base with 7/16" socket and a 5/32" allen key.
7. Undo the rear mounting hardware holding the straps to the mounting base, with a 7/16" socket and #3 phillips screwdriver.

Note: On older motors prior to 2020, remove the plastic airline(no longer required)

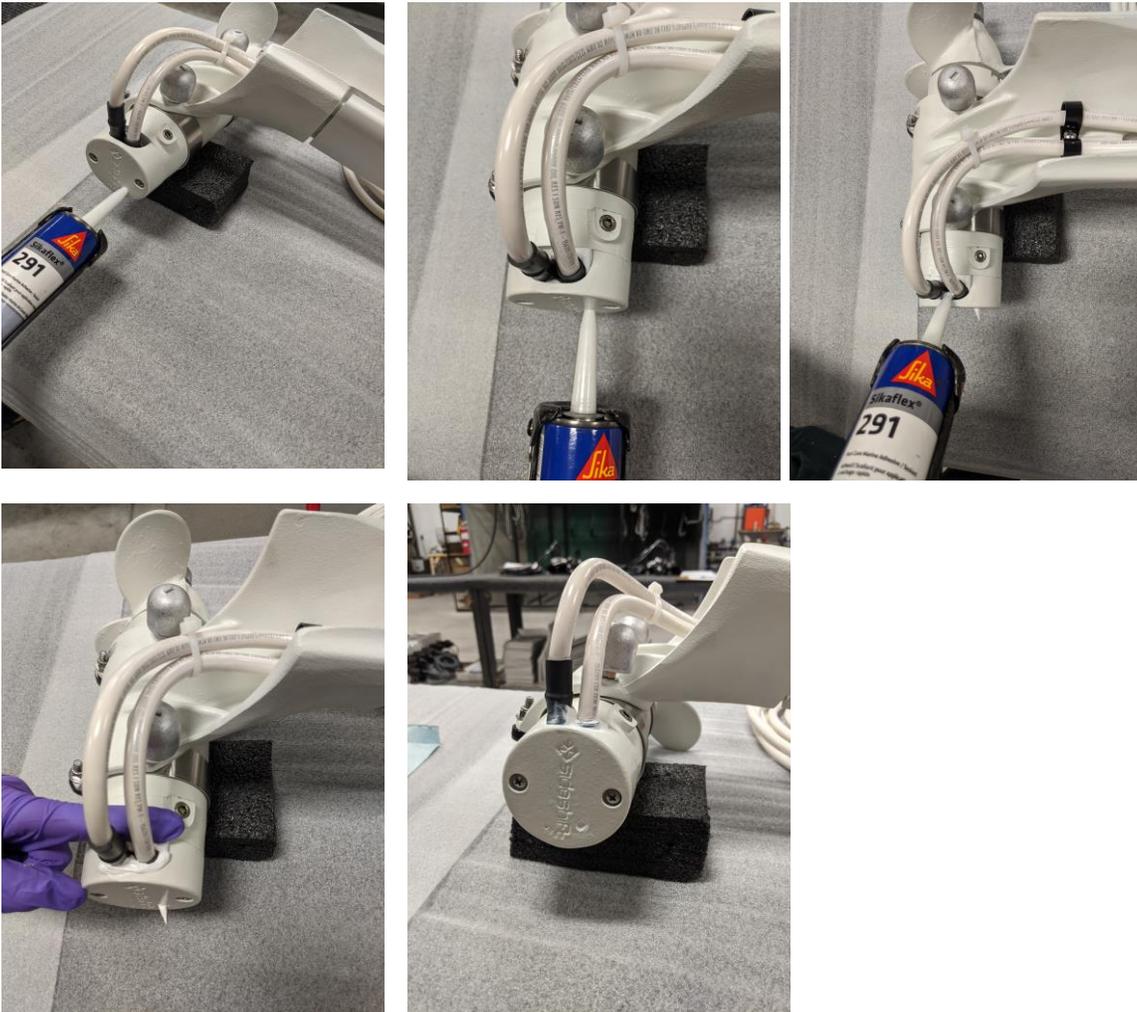
Re-Installing New 230 Motor

Note: Apply anti-seize compound on threads of all stainless steel parts when reinstalling hardware

Note: The plastic airline has been eliminated and is no longer required

1. Reinstall new motor straps, ensuring they are straight and parallel across the motor body.
2. Position the motor on the mounting base in the same position as the old motor.(refer to your photographs of old installation) Apply anti-seize to bolt threads and install hardware using 7/16" wrench and 5/32 allen key. Ensure motor is completely secure in the mounting bracket.
3. Connect thruster cables with brass nuts; **moderately** tighten with 1/2" wrench. **Warning: Do not overtighten or damage will occur**
4. Attach motor cap to the motor. Insert and tighten screws provided in kit.
5. Thread on the two bracket anodes and tighten with pliers.

6. Fill the end cap through the filler hole with a marine sealant (we recommend SikaFlex). Apply additional sealant where the cables enter the end cap until area is completely filled. Wipe off any excess sealant and allow to cure for at least six hours. If you use another type of marine sealant please follow manufacturer's curing directions.



Installing Propeller to Motor

1. Cover the prop pin with an all purpose grease. Insert prop pin into the motor shaft.
2. Slide propeller onto the shaft. Ensure that the prop pin is nested in the slot on the propeller. Please note the propeller only fits one way.
3. Put blue threadlocker on the prop shaft.
4. Slide on the washer and nut and securely tighten with an 11/16" socket wrench.
5. Thread on the prop anode and tighten with pliers.