



How to replace gaskets on USA Lab 3” Tri-clamp Mixing Motor

Things you will need:

- Vacuum grease
- 5mm Allen wrench
- 10mm wrench or an adjustable wrench

Step 1 - Removing the motor from the sealing assembly:

Remove the four nuts holding the assembly to the motor.

Loosen the two screws holding the shaft to the coupler.

Slide the shaft and assembly away from the motor.



Step 2 – Unscrew the black housing from the seal assembly:

**** Housing is REVERSE THREADED ****

Turn the black housing **Right** to **Loosen** and separate the two parts.

You should be left with the assembly looking like the image below.



Step 3 – Remove the threaded adapter from the 3” Tri-clamp fitting:

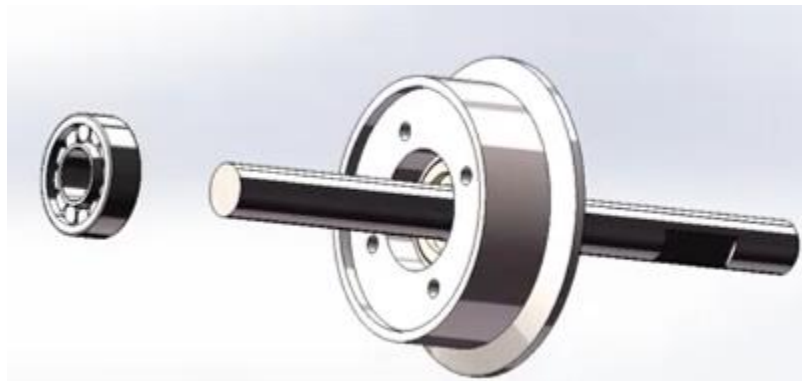
Unscrew the 4 bolts holding the threaded adapter.

Step 4 – Slide the bearing and seals out:

Slide the bearing and seals out carefully.

Note the orientation of the seals.

Remove from shaft.



Step 5 – Install new seals:

Install new seals carefully and apply even pressure.

One seal on each end of the shaft.

The flat part of the seal should be facing the center of the shaft.

Lubricate the inside of the Tri-clamp fitting and the outer O-ring of the seal.

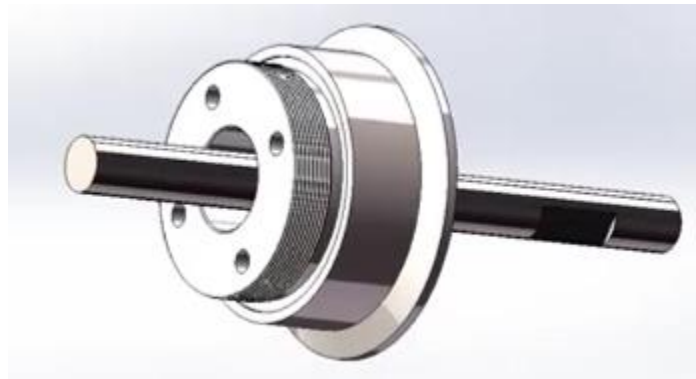


Step 6 – Align the gaskets at the end of the shaft and press into the fitting:

Use the threaded adapter to compress the gaskets and bearings into place.

Tighten the bolts evenly in an X pattern.

Only tighten 1 full turn on each bolt at a time.



Once each bolt is fully tightened.

Reassemble the housing, turning **LEFT** to **TIGHTEN**.

Reverse disassembly to reinstall motor.