

**End Suction Service**

# Always Think Safety!

Personal

Your own

Others'

Hydraulic

Electrical

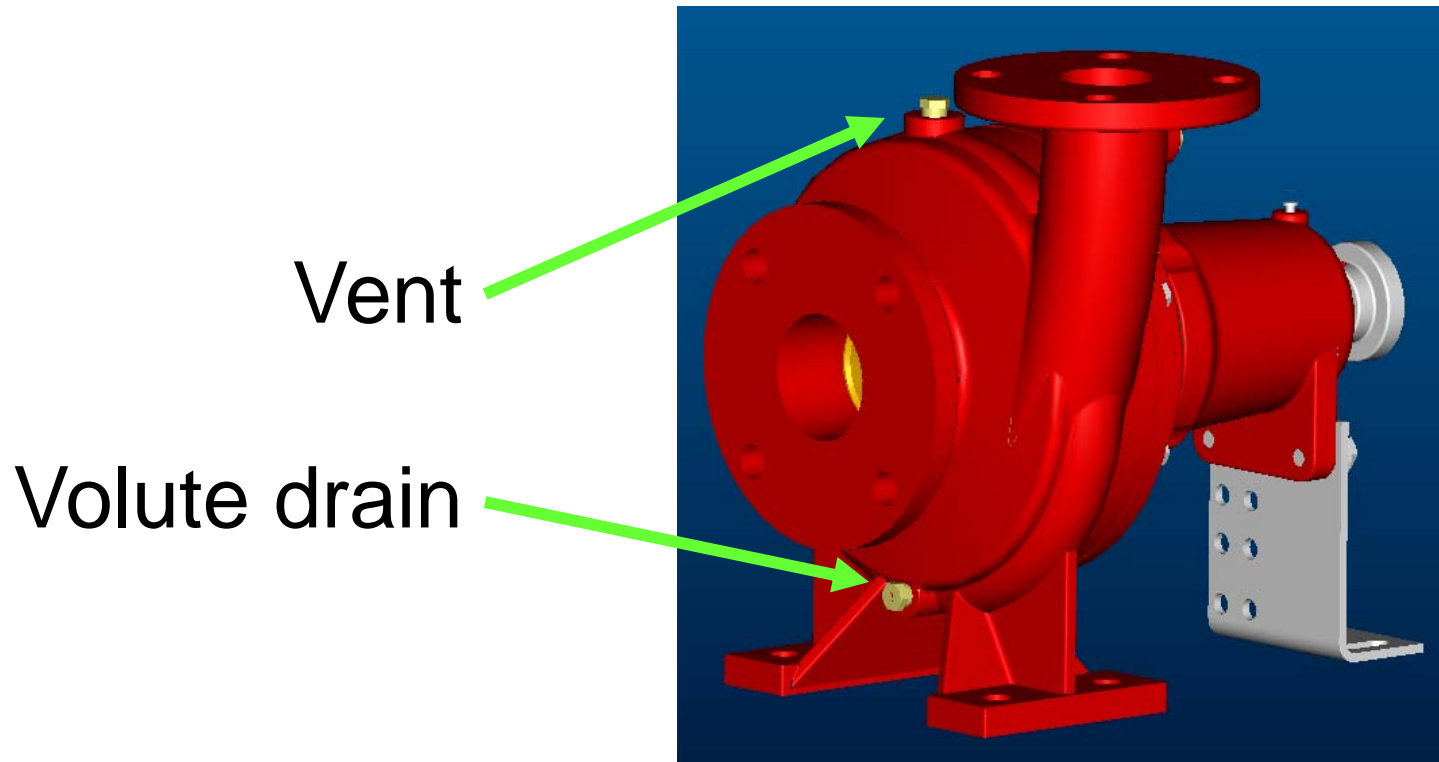
System

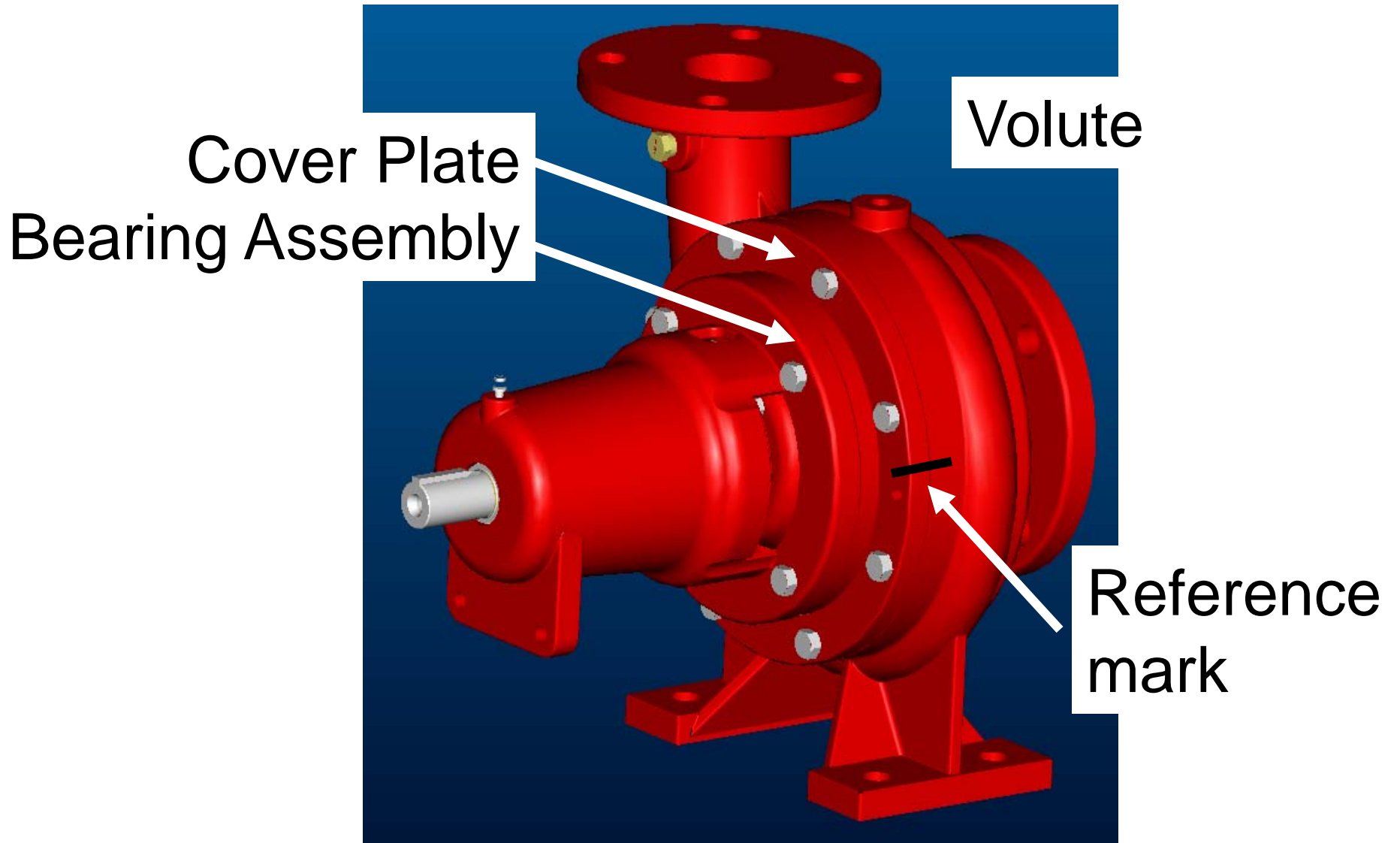
Work Environment

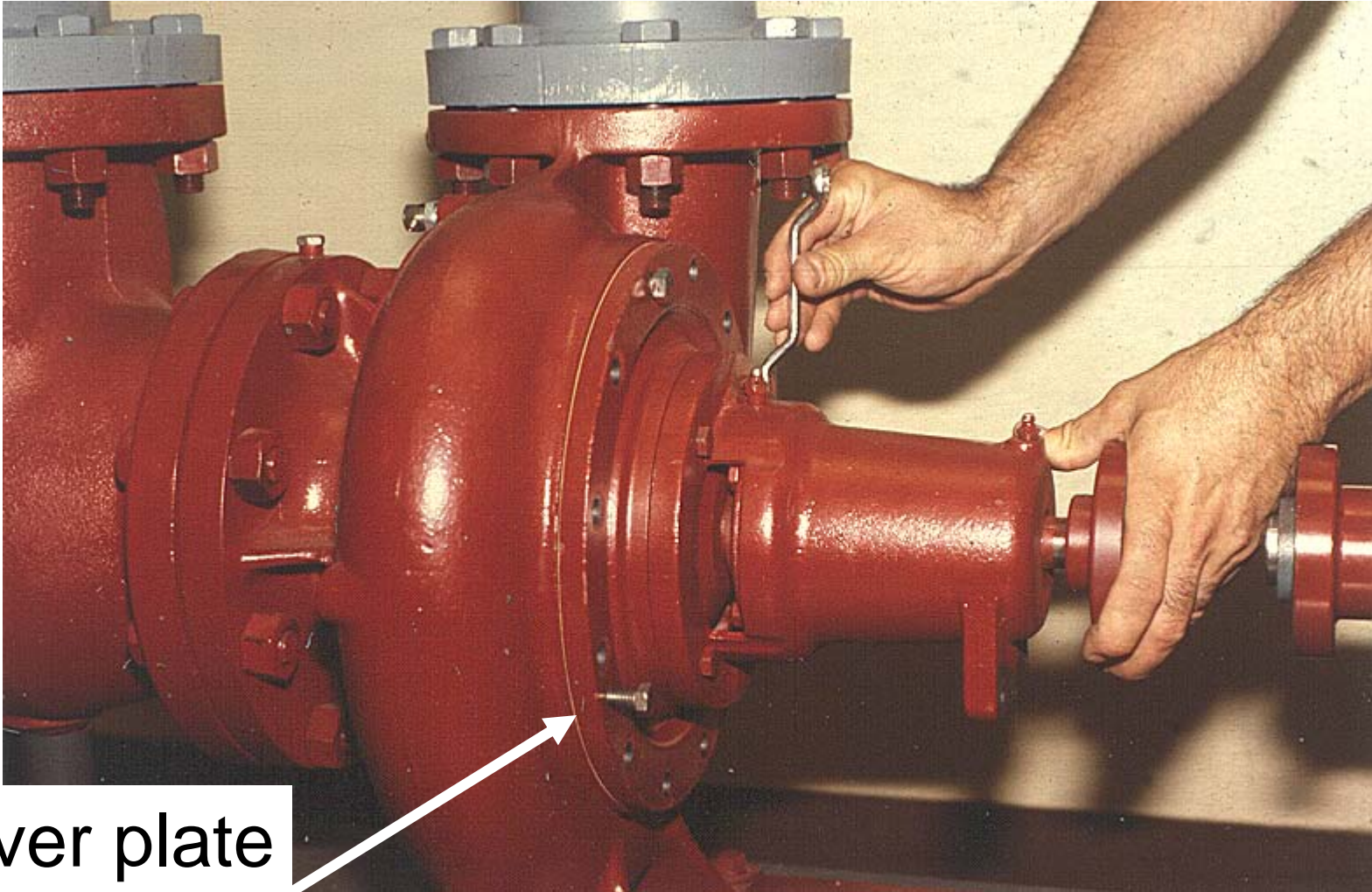
# Shutdown

- Shut down and tag out the pump driver.
- Close and tag out the suction and discharge service valves.
  - Note Triple Duty Valve stem position.
- Close external flush lines if the pump must be drained.
- Open casing drains and vents.
- If necessary, allow the pump to cool down.

# Prepare the pump for service

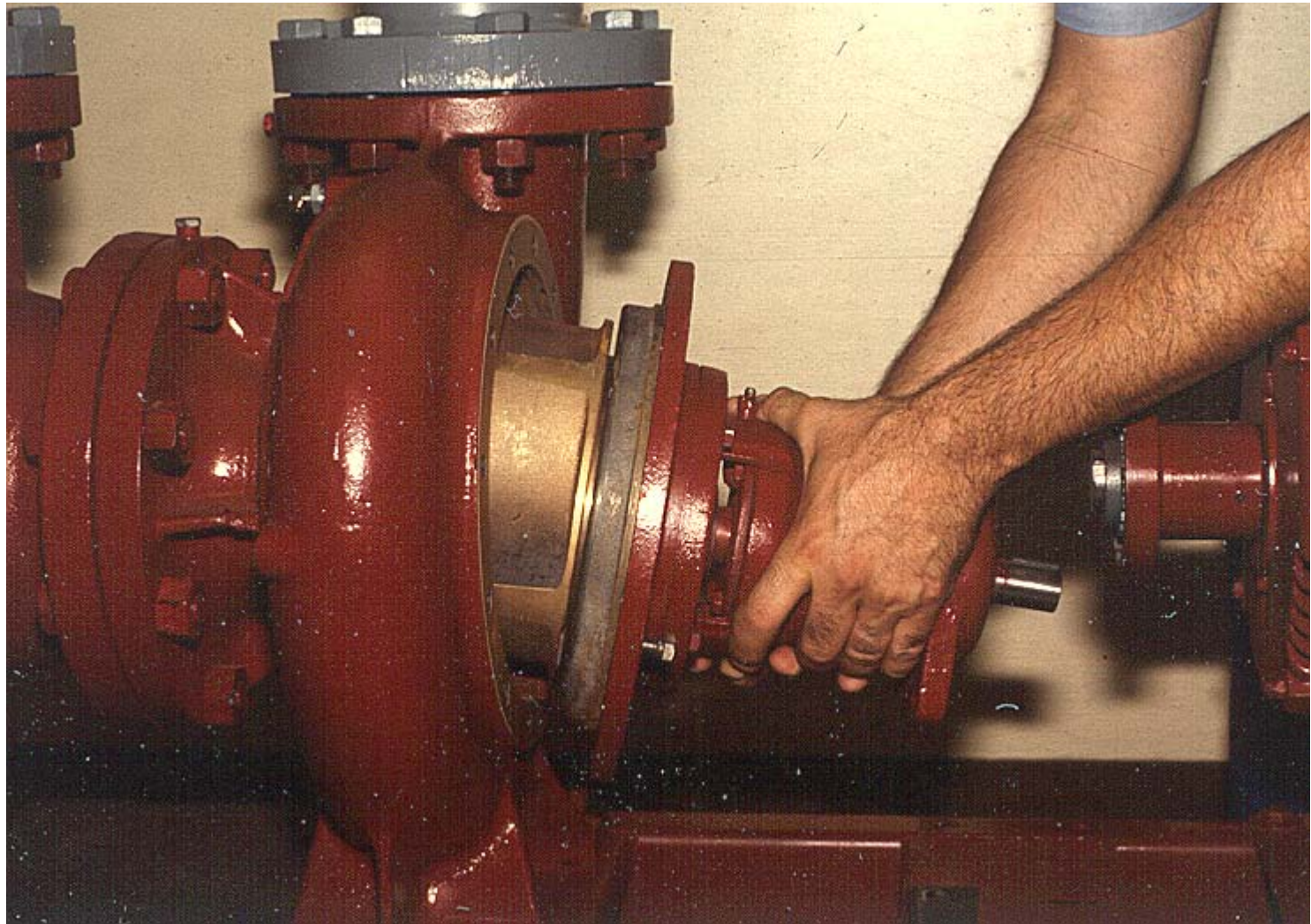


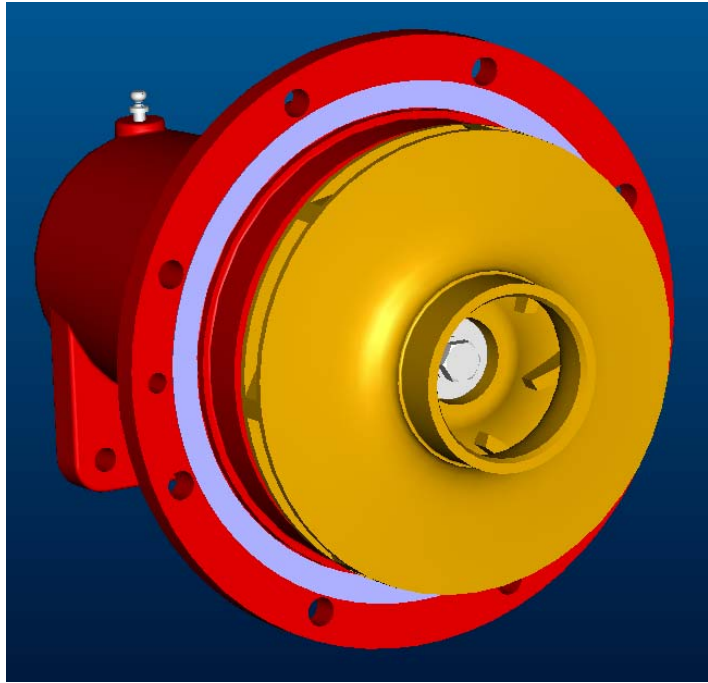




Cover plate  
Jack-screw

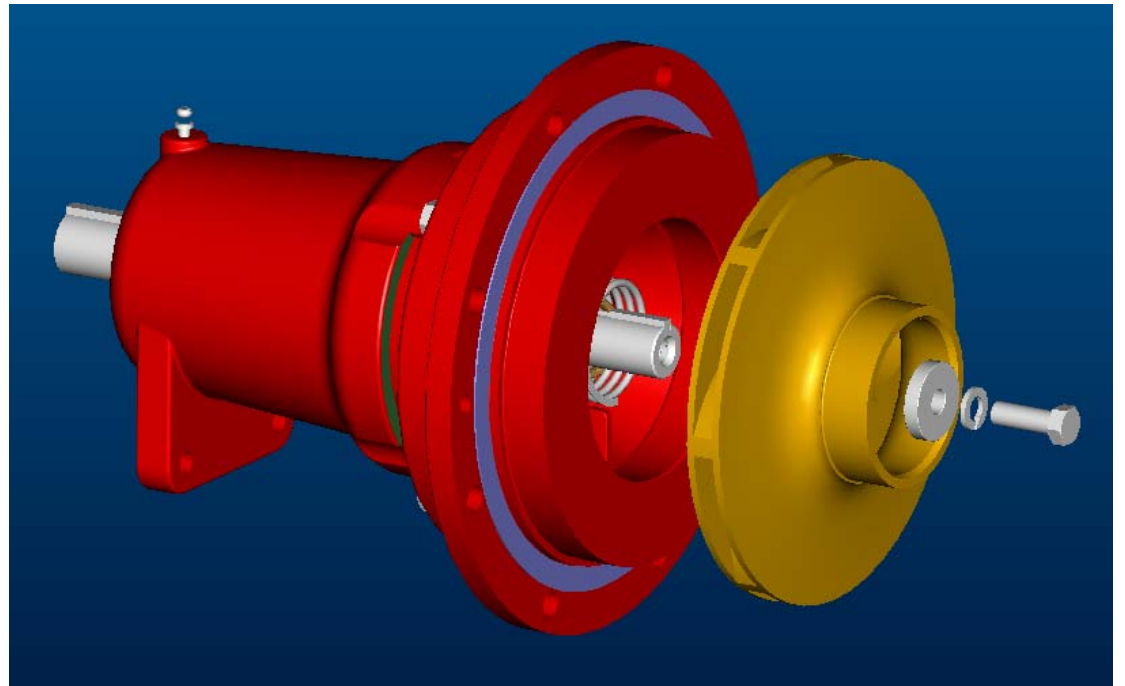






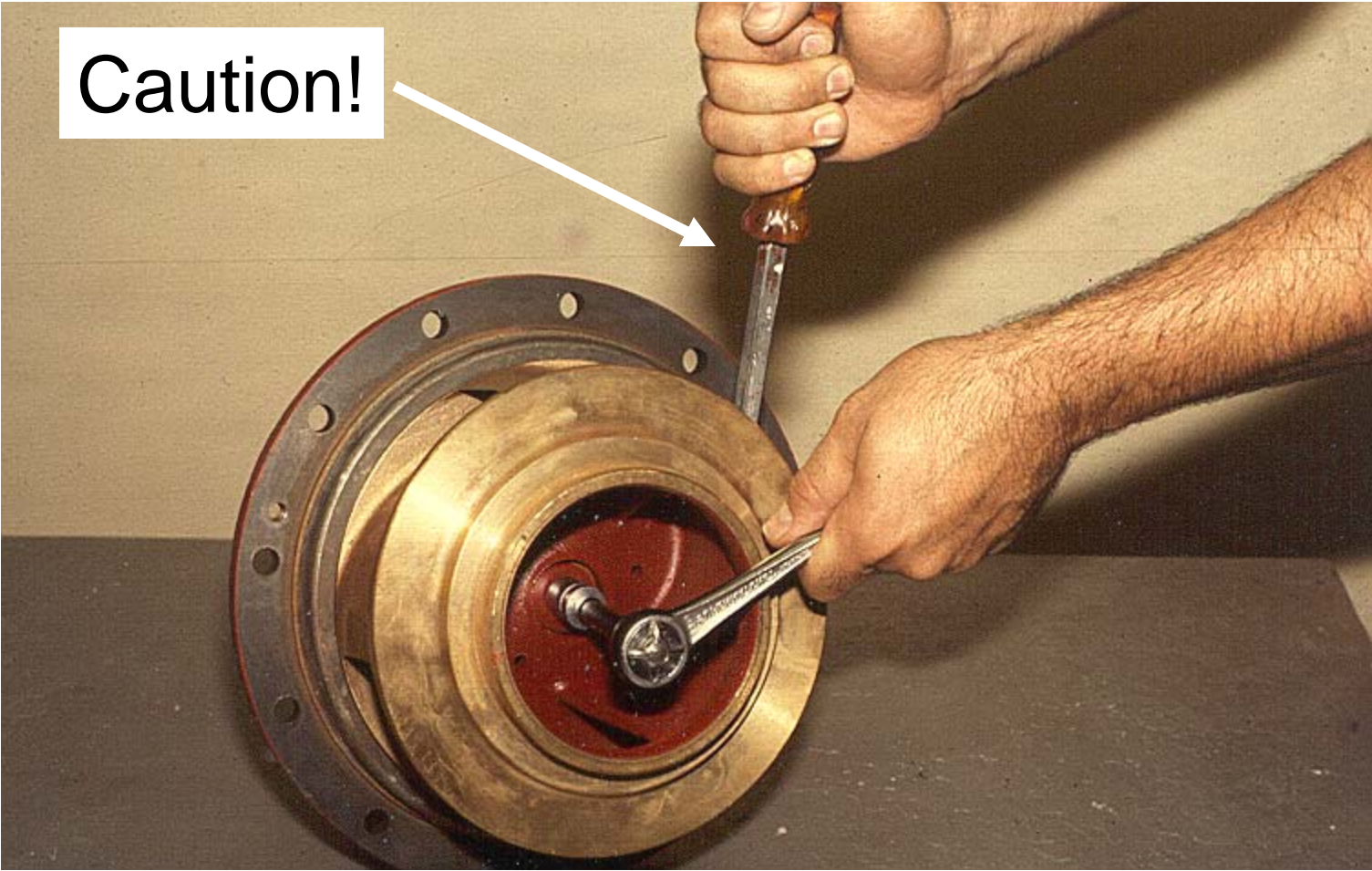
## Volute Gasket Rotating Assembly

Removing  
the impeller



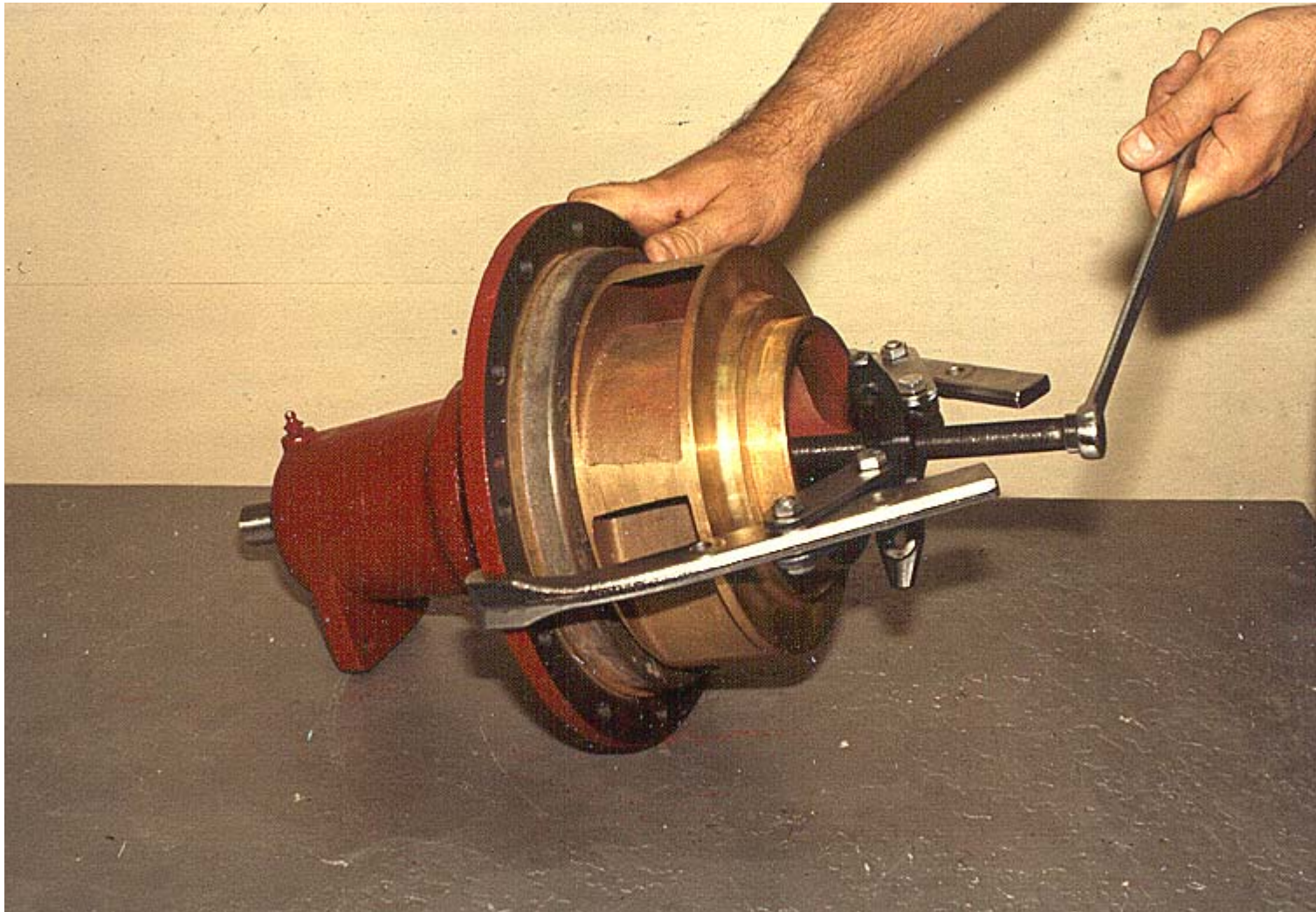


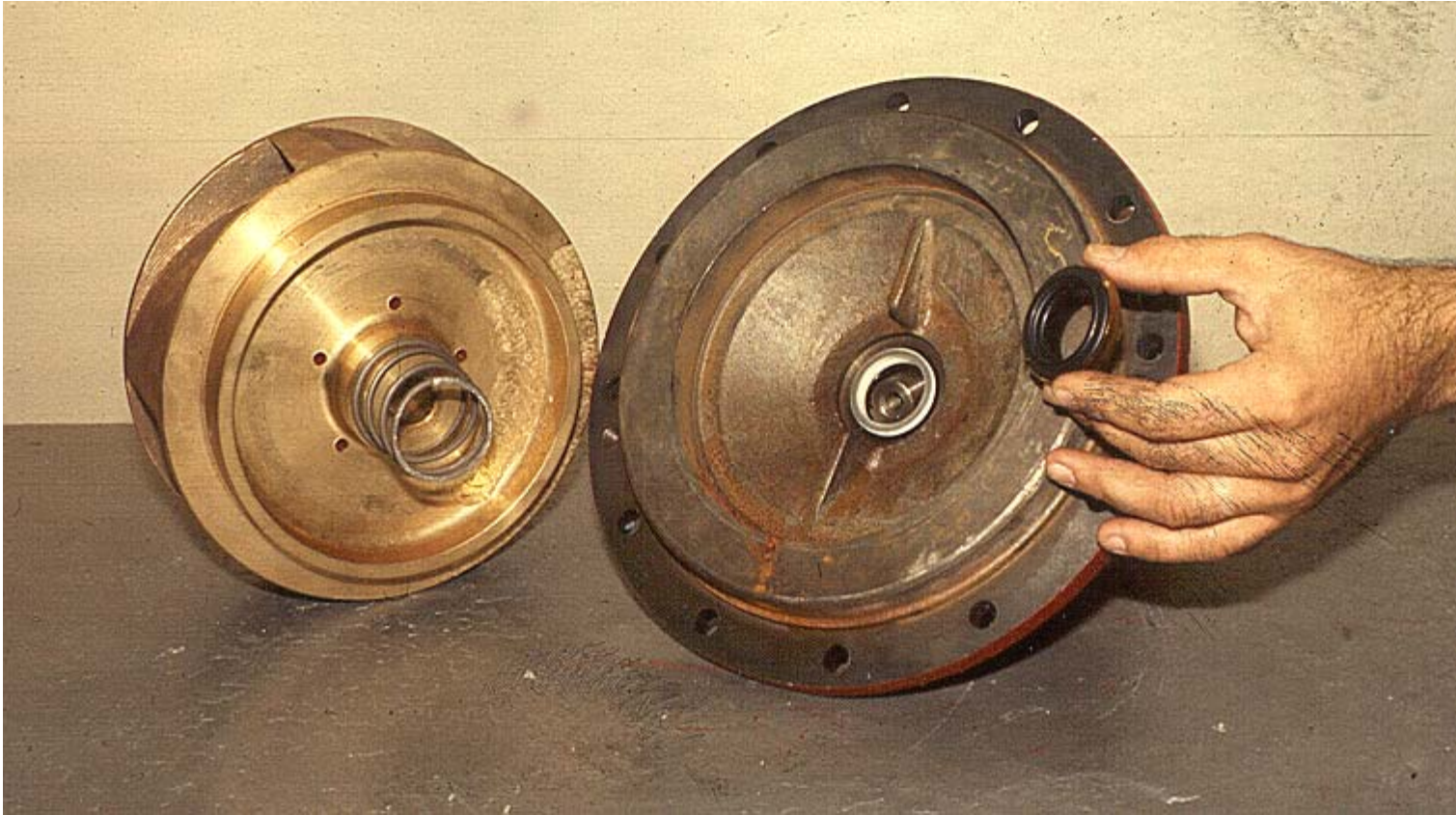
Caution!



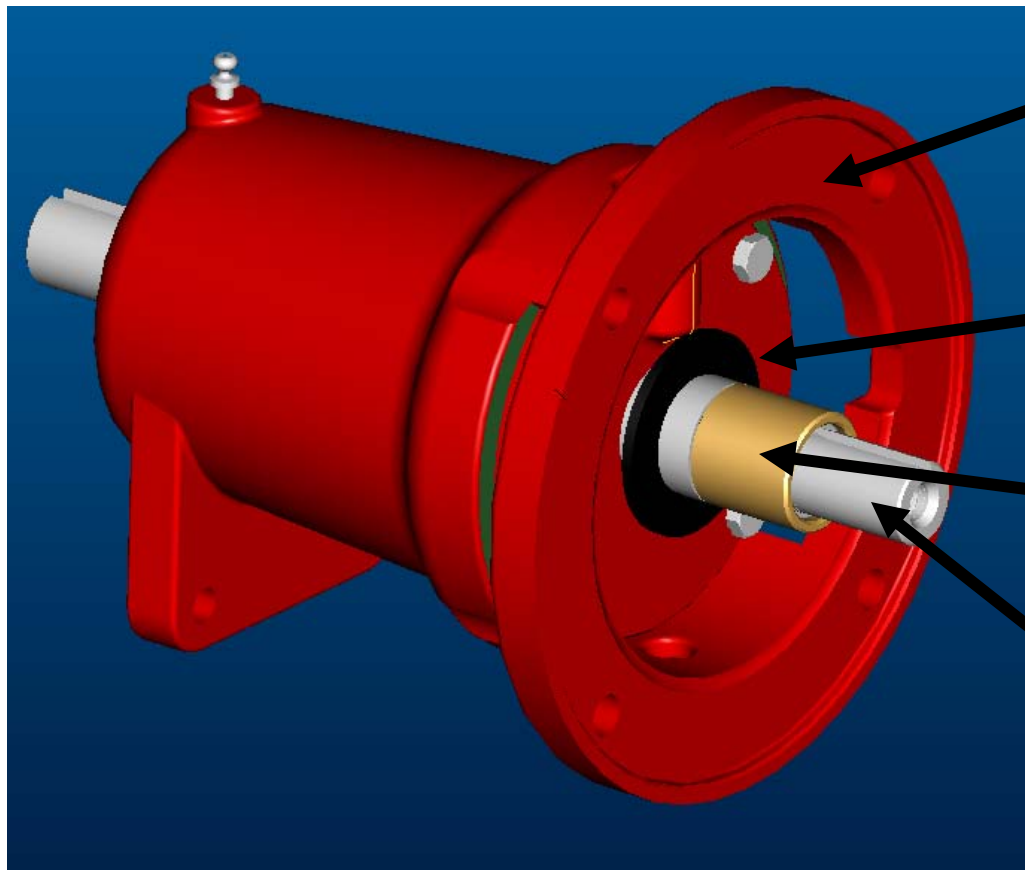








# Inspect the shaft sleeve



Bearing  
assembly

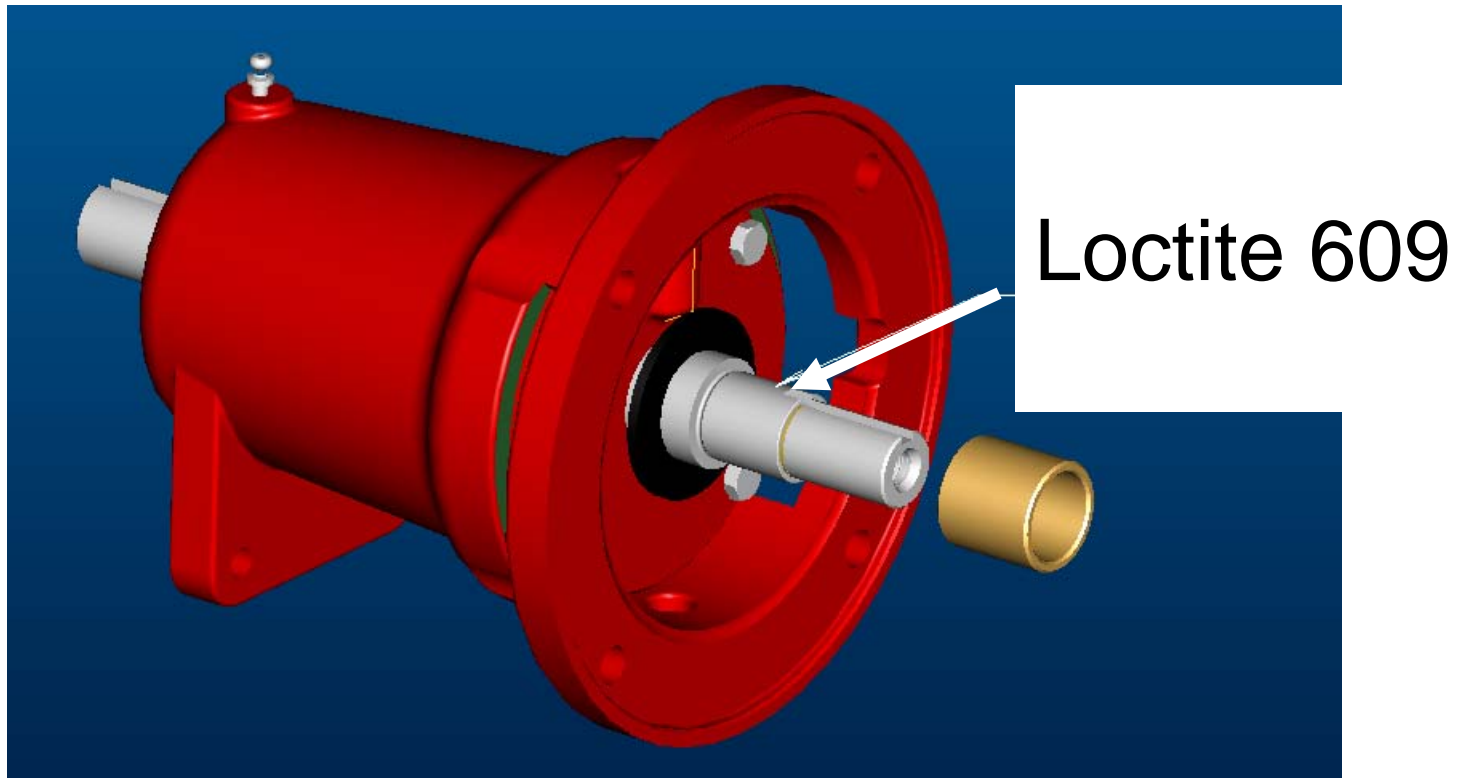
Slinger ring

Shaft sleeve

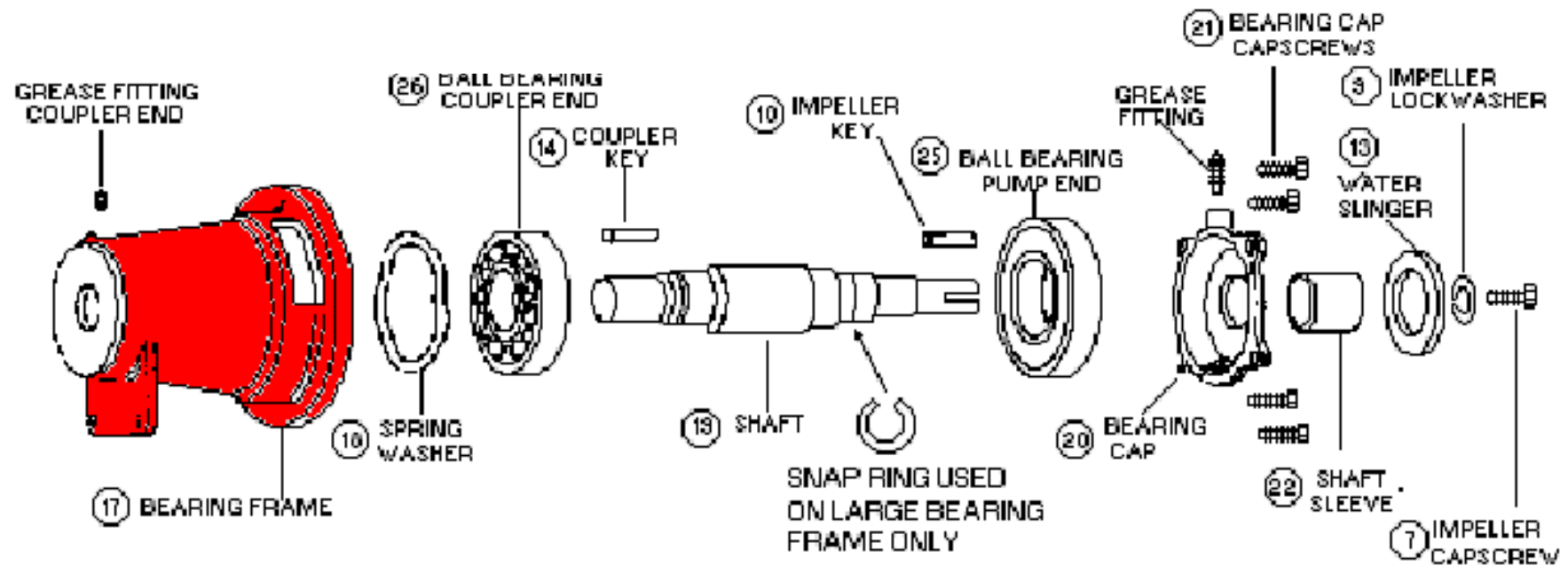
Shaft



Replace, if necessary



# Inspect the bearings



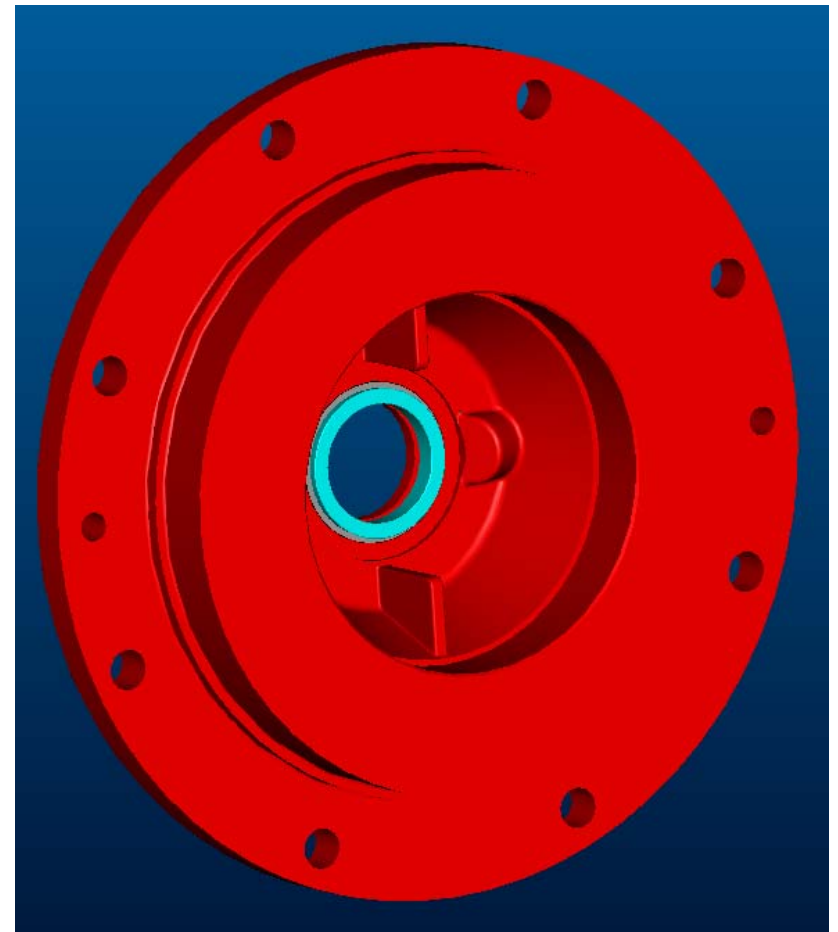
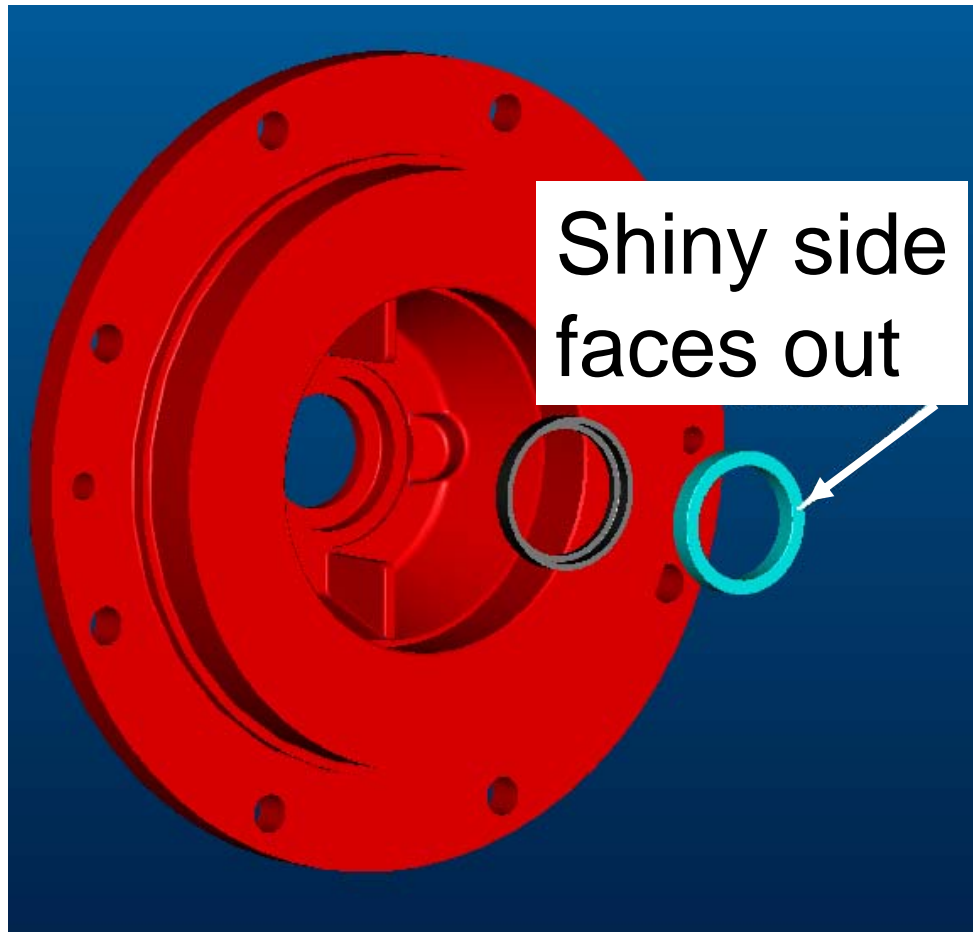
## 1510 BALL BEARING STD CONSTRUCTION

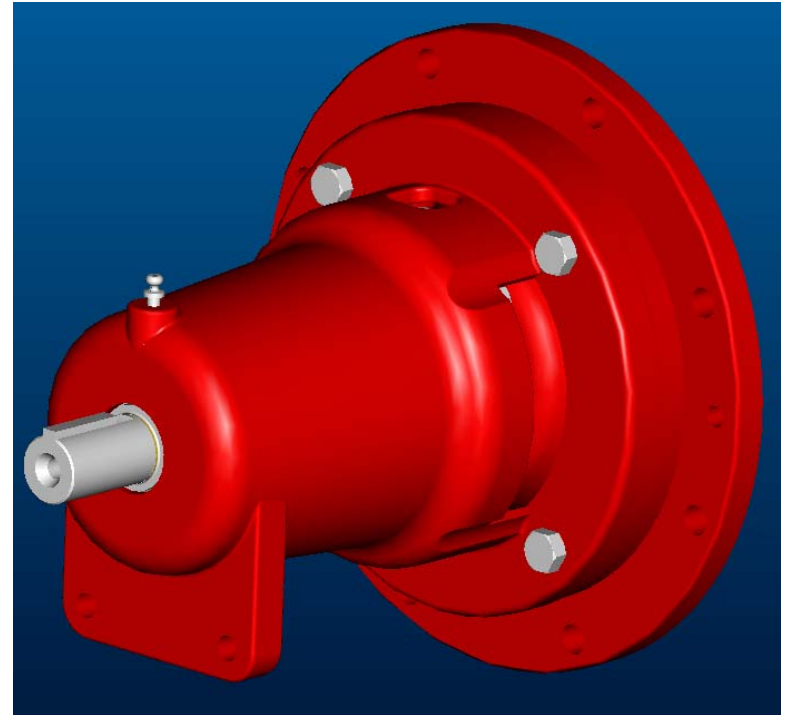
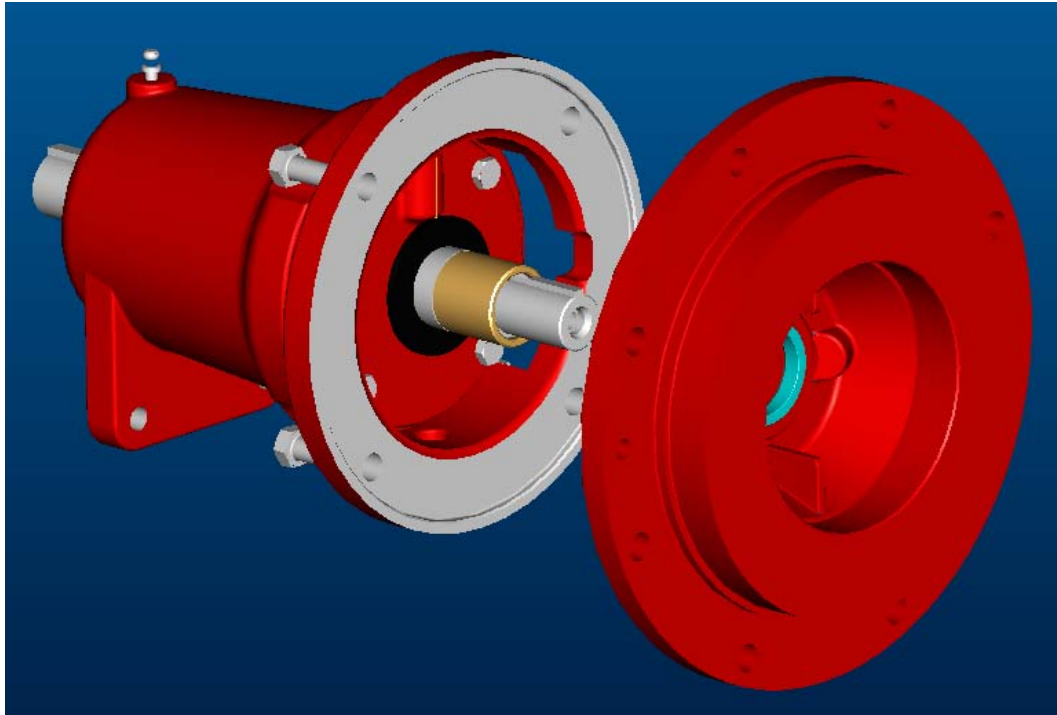
BEARING CAP COUPLER END (NOT SHOWN) IS ONLY USED ON THE EXTRA LARGE BEARING FRAME.

Clean out the counter-bore region



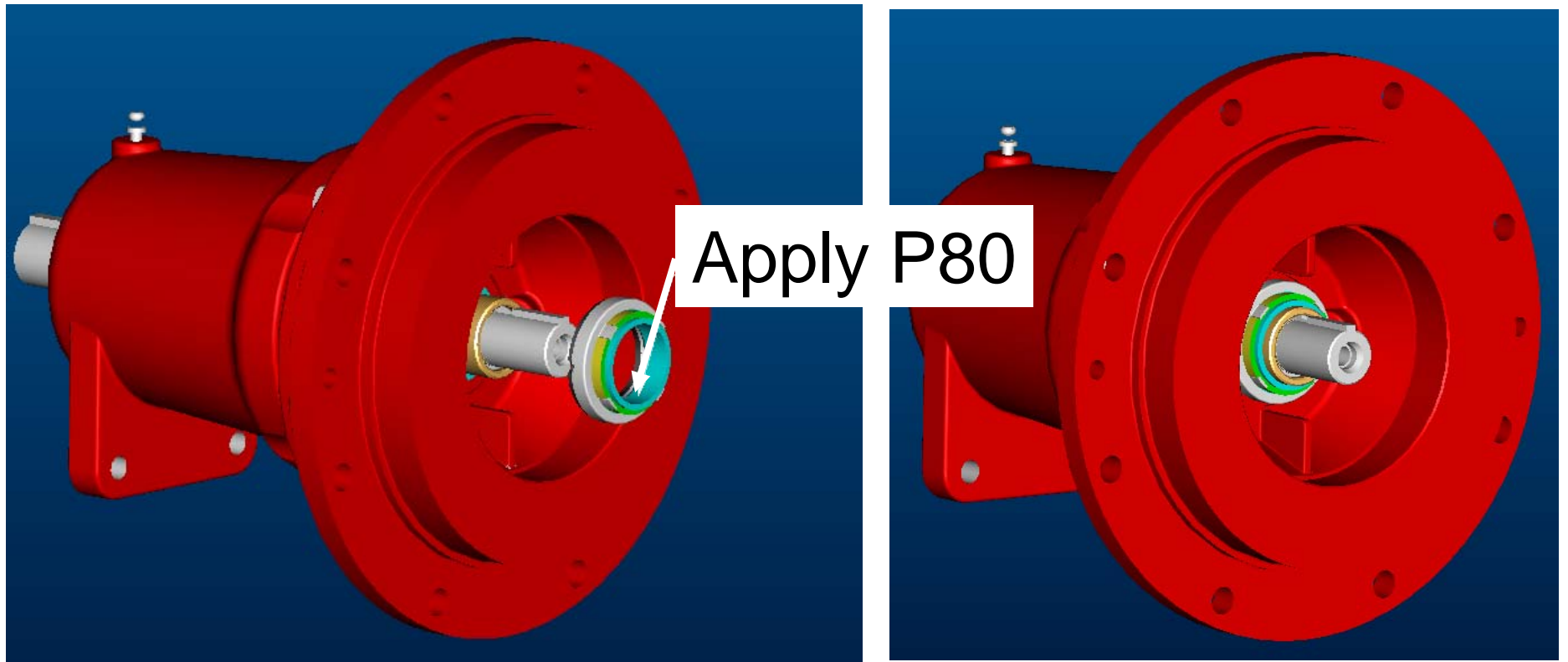
# Install new seal insert



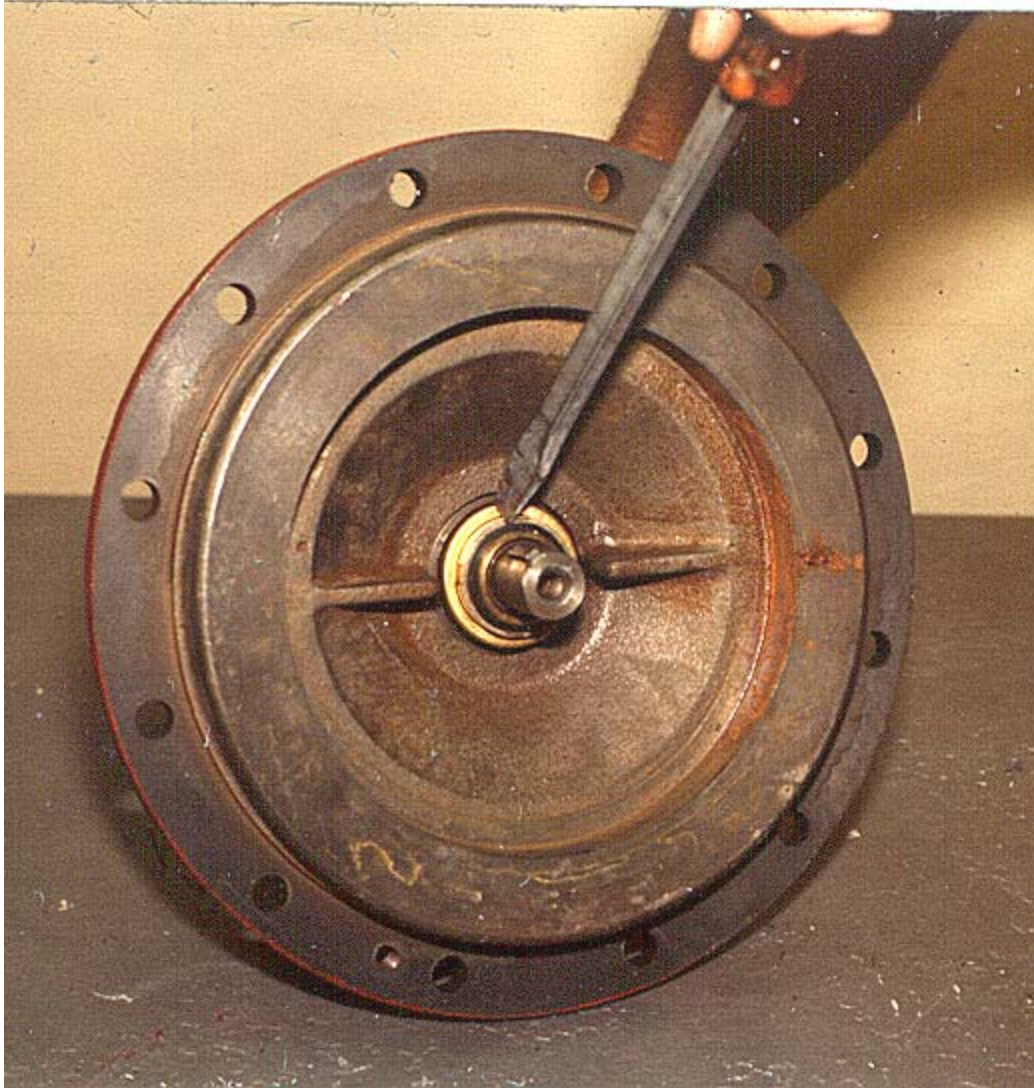




# Install new seal head

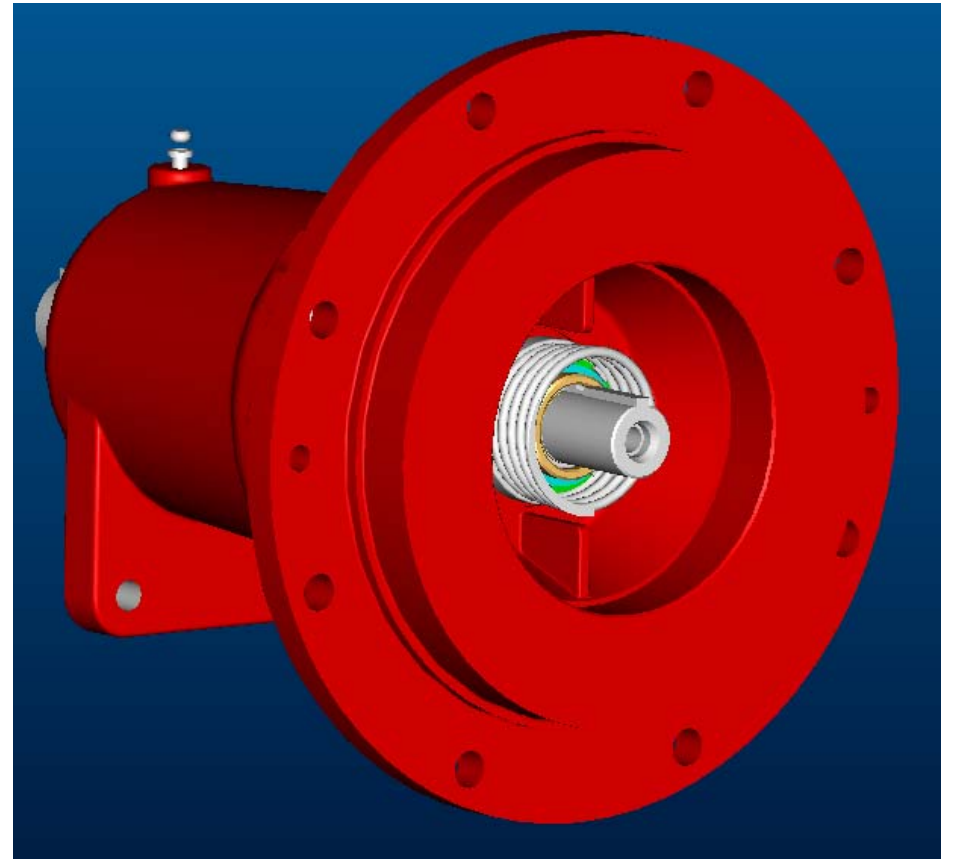
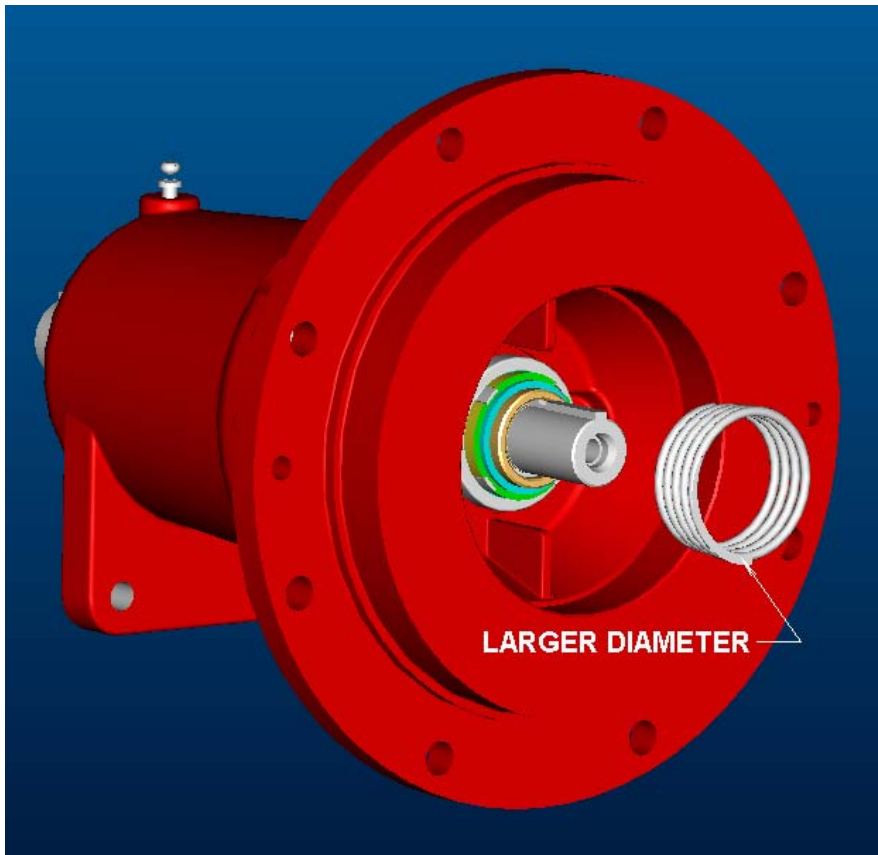


Slide the seal head over the shaft sleeve



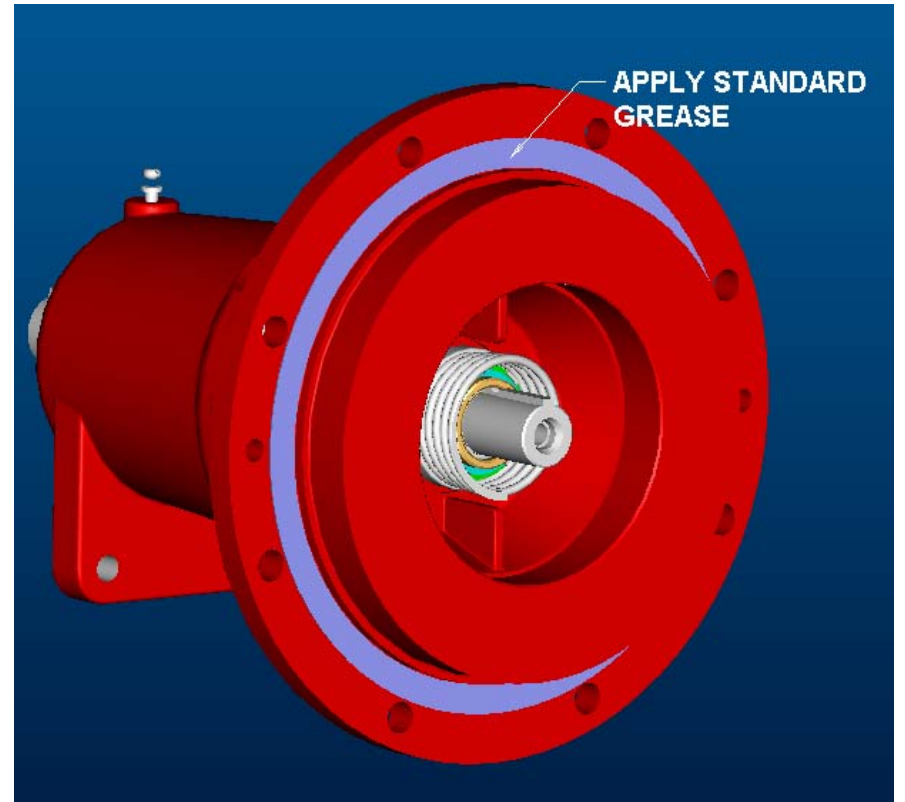
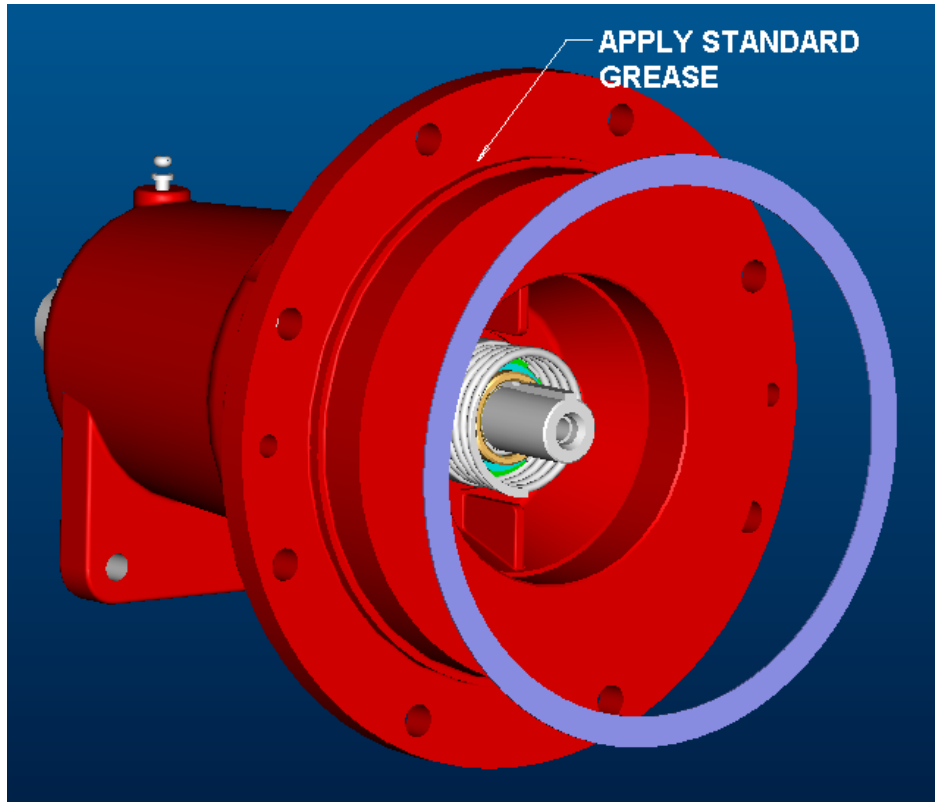
Press the  
faces together  
Don't hit them!

# New seal spring



Some seal springs are tapered.

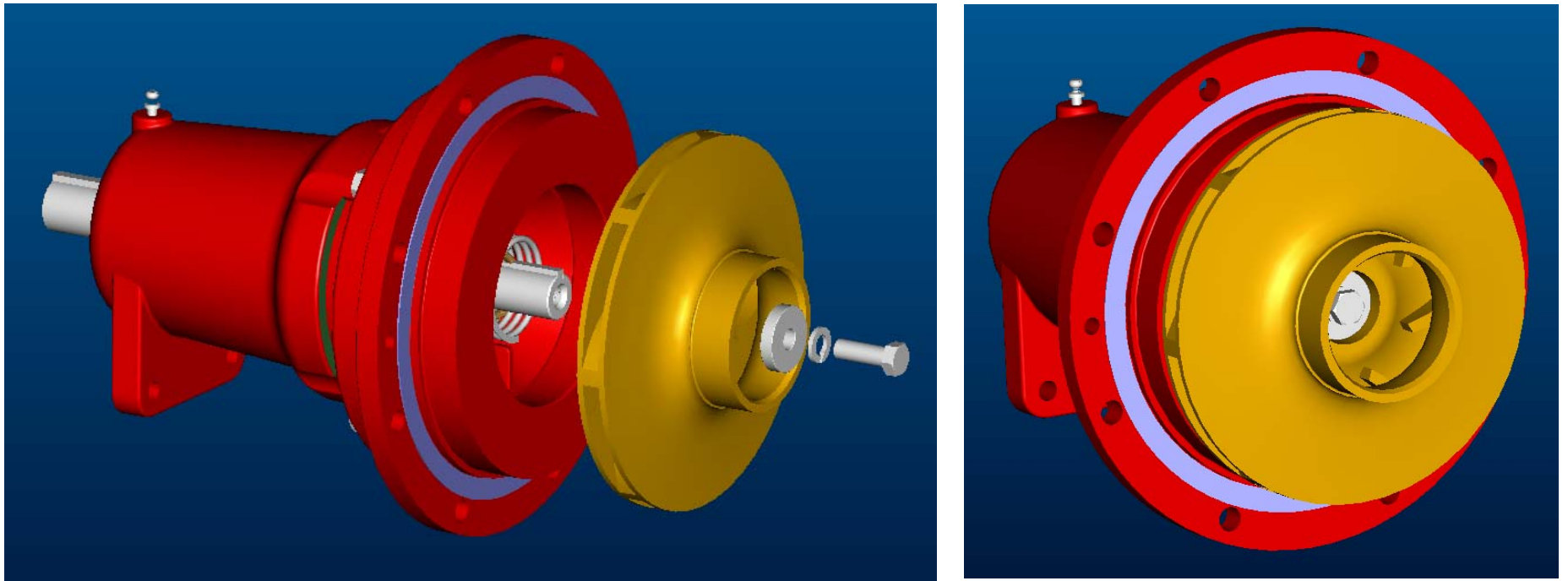
# Volute cover plate gasket



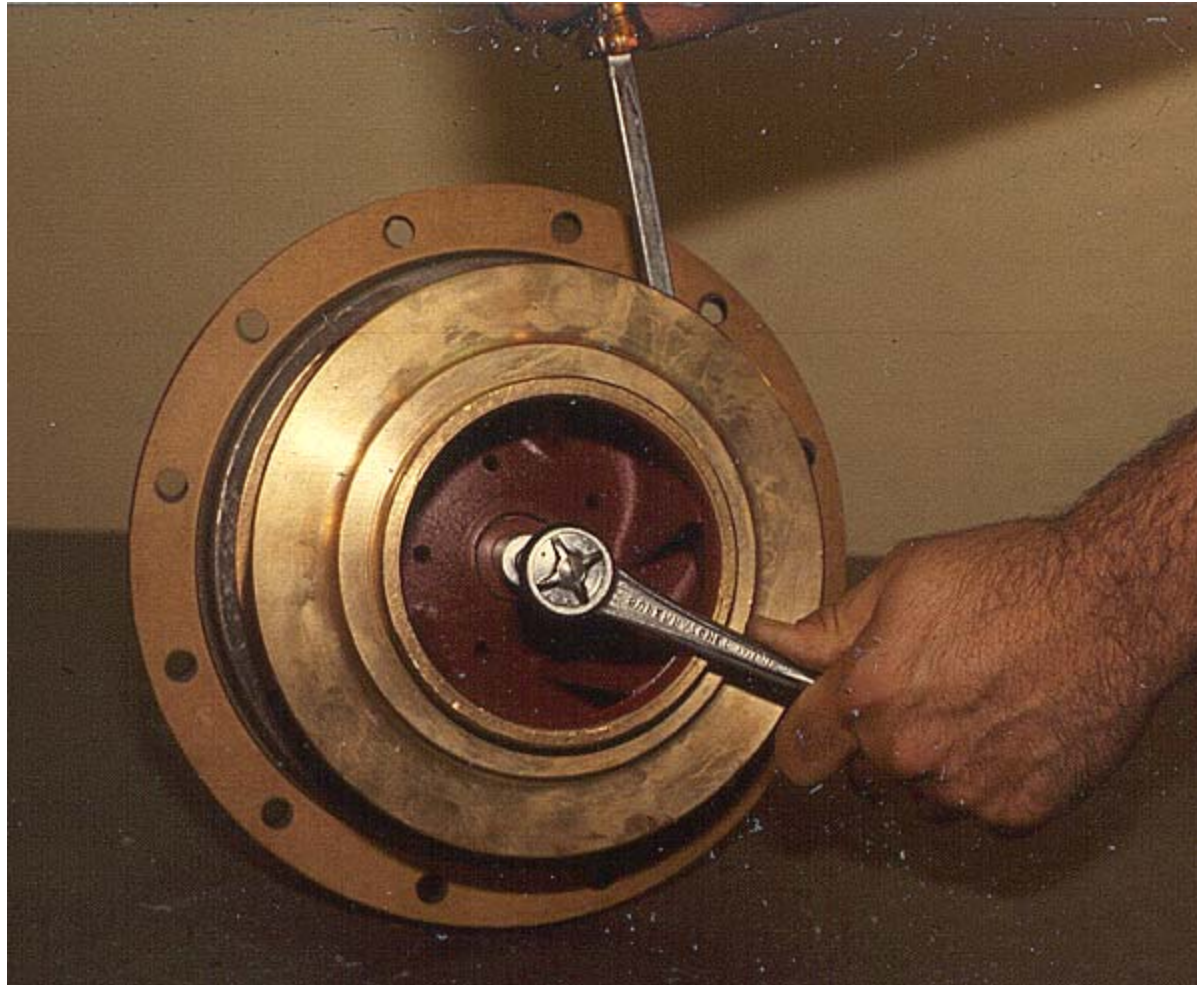




Align key in impeller keyway



Replace key if it is worn or rounded.



Avoid damage to the impeller.

