

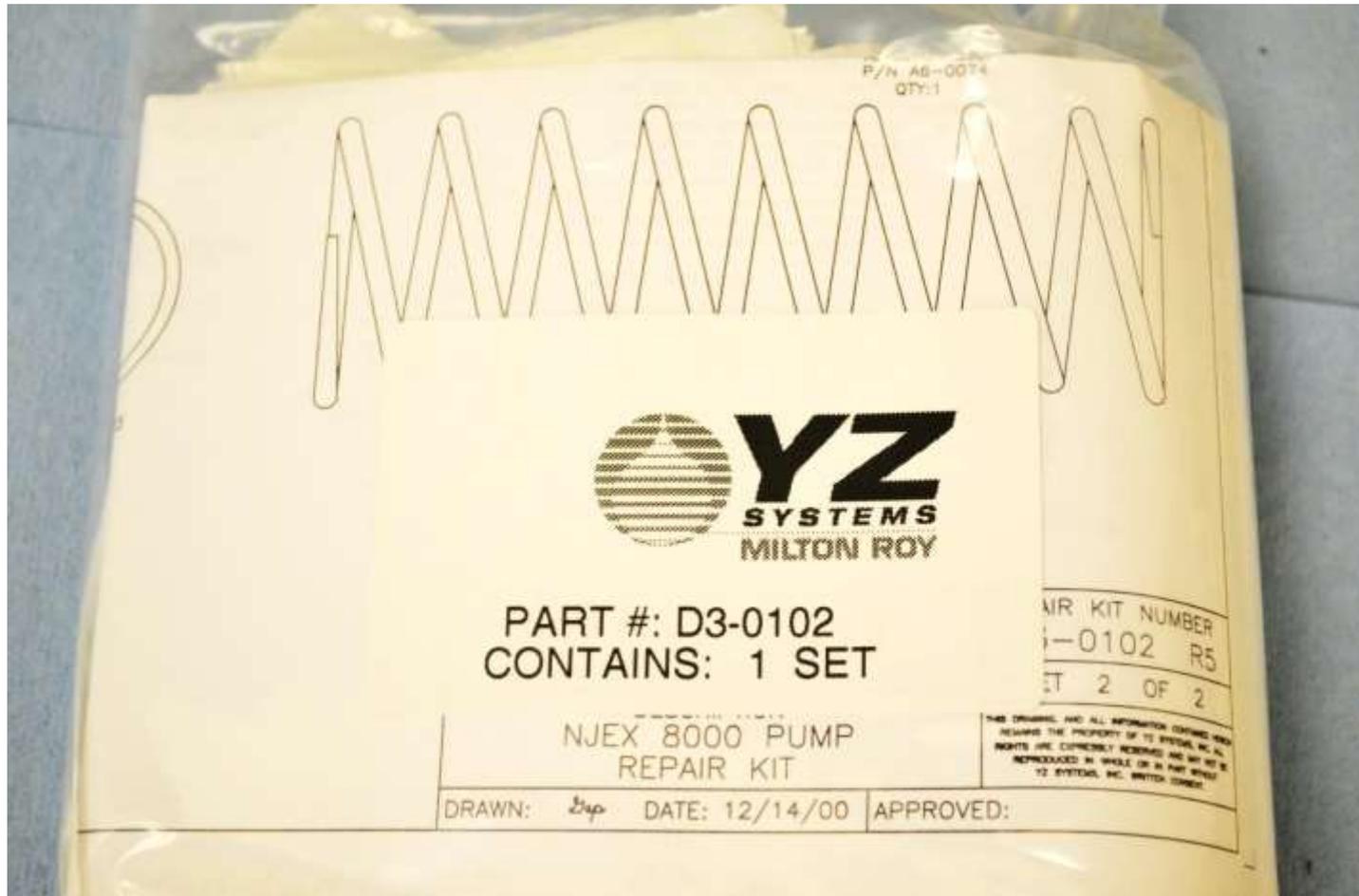


# 8000 Pump Maintenance

Perform Forward System Purge Before Performing Pump Maintenance...Pump Must Be Removed From Enclosure To Service.



# Use Repair Kit P/N D3-0102





# 8000 Pump Removed From Enclosure

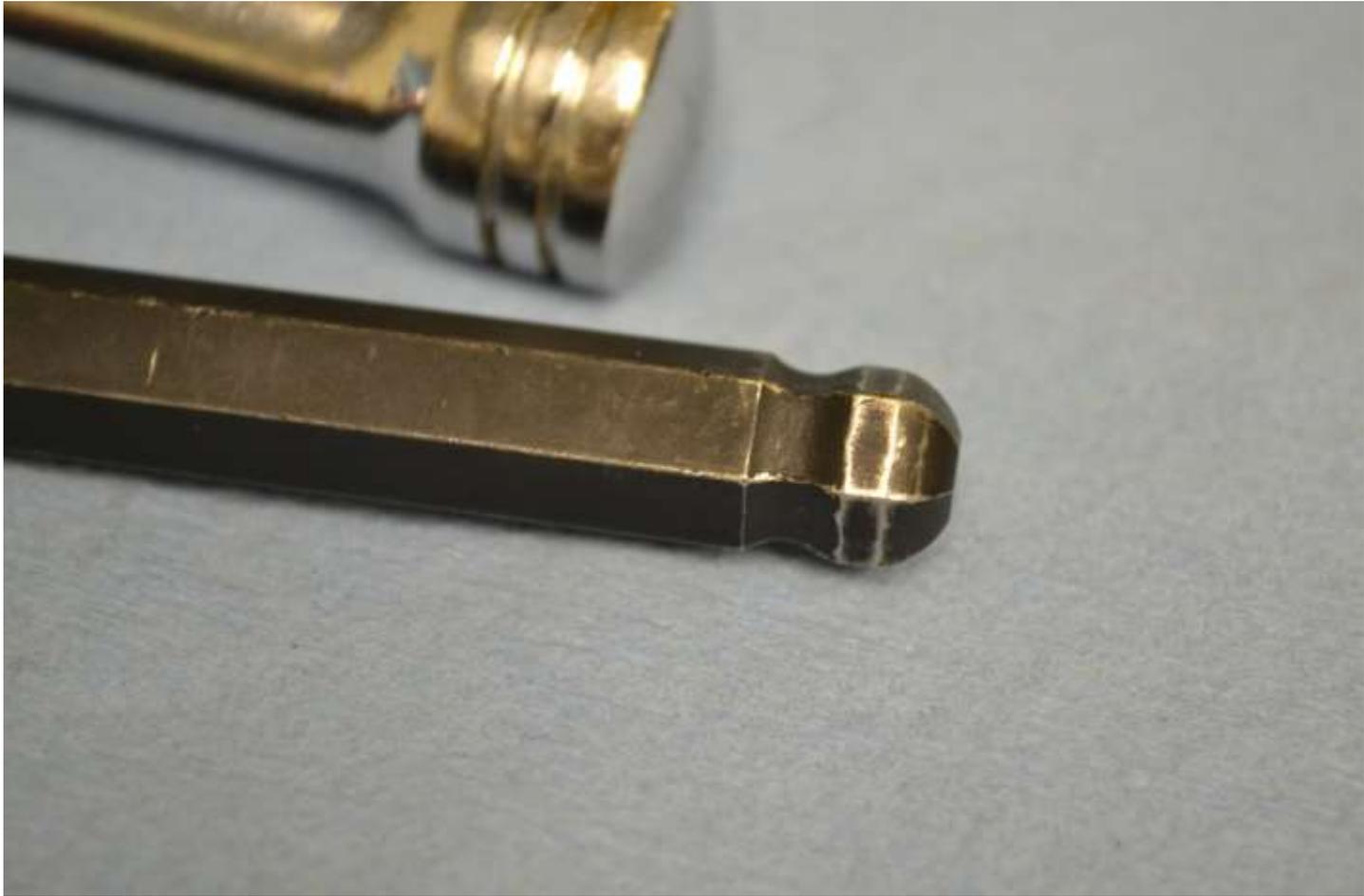




# Special Tool Required: 1" Socket and 3/16" Long Tee Handled Ball End Allen







## Remove Oil Cap



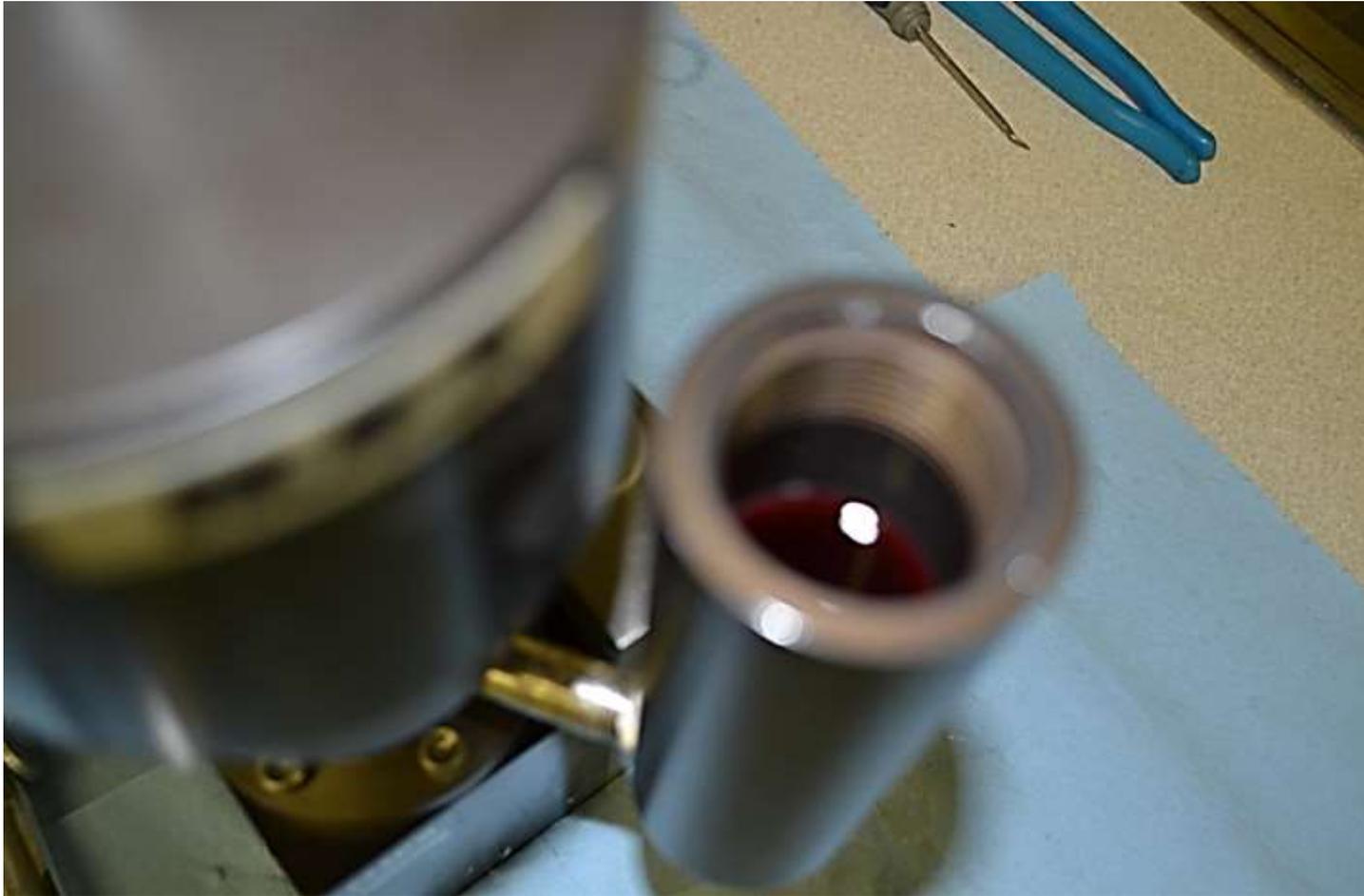


# Oil Cap Removed





# The Pump Should Have Oil In It To Be Removed





# Place Paper Towels in Your Air Tight Waste Container





# Pour Oil From The Pump Into Waste Container





# Assure ALL Oil is Out





# Remove the Allen Head Screws That Connect The Actuation Assy. to The Hydraulic Assembly





# Note/Mark The Orientation Assemblies to Each Other



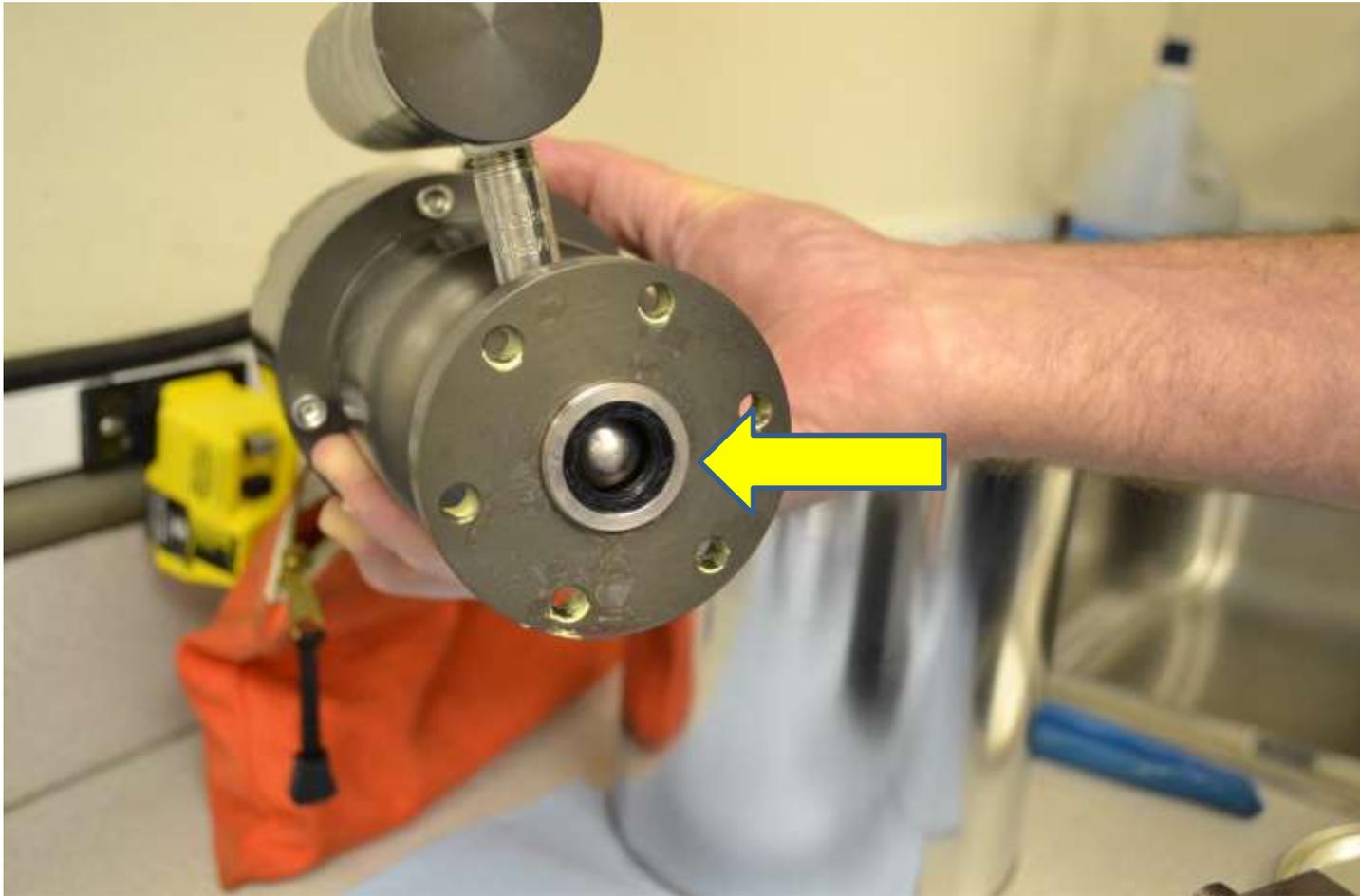


# Separate The Two Assemblies





# Remove The Plunger Seal and Support Sleeve

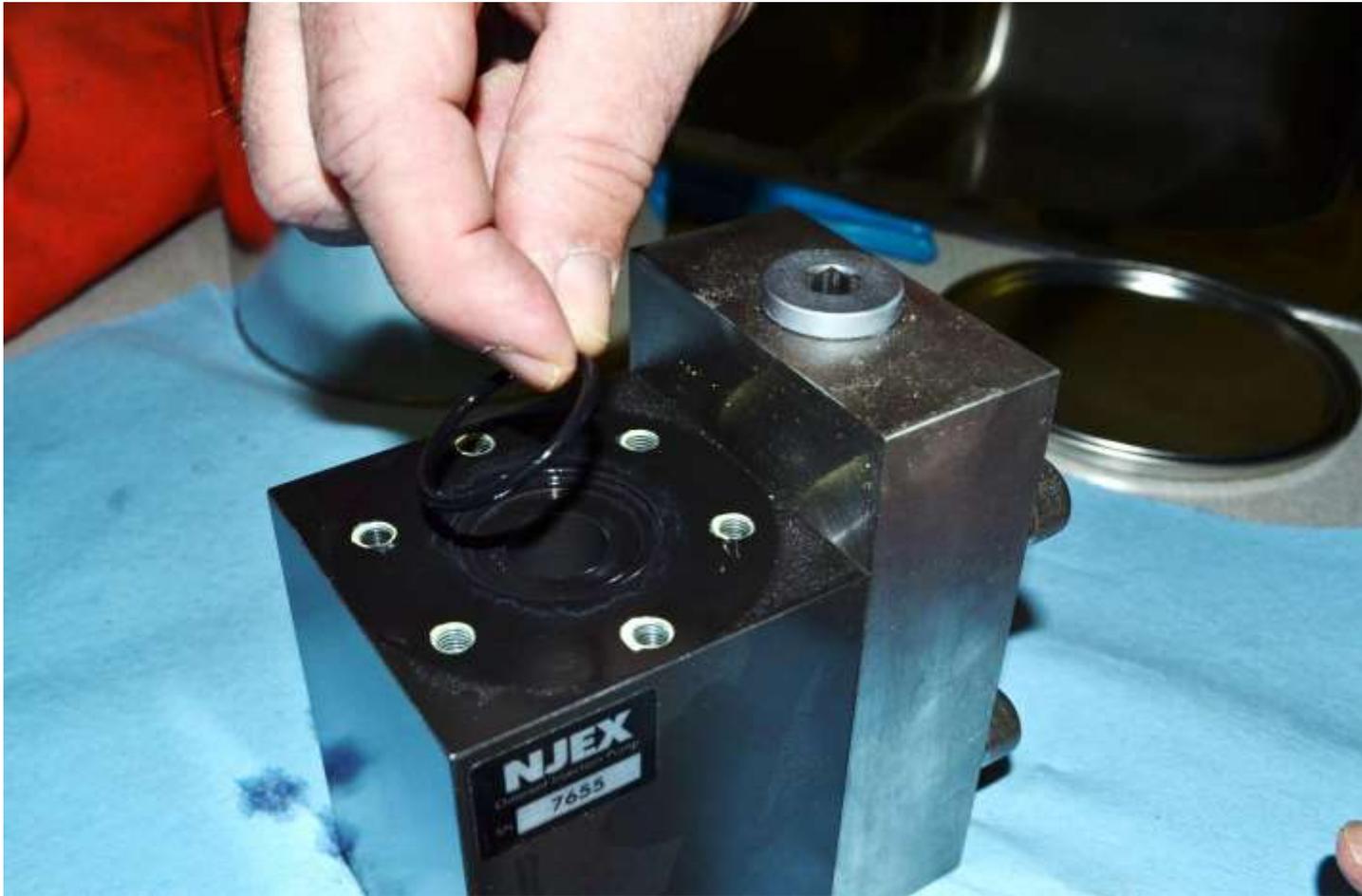




# Sleeve and Seal Removed



## Remove The Body O-Ring





# Drain Any Remaining Oil Into Your Waste Container





# Remove the Allen Screws That Attach the Actuation Cylinder





When Screws Are Removed,  
The Spring Will Force The  
Assy. Apart





# Remove the Actuation Cylinder





# Remove the Plunger Assy. and Spring





# Plunger Assy. and Spring Removed





# Prepare to Remove The Plunger Seal Cartridge





# Using a 1" Socket Remove The Plunger Seal Cartridge





# Cartridge Removed





# Remove The Three (3) Bushings From The Cartridge





# Bushings, Seal, and O-Ring Removed From Cartridge





# Remove The U-Cup Actuation Seal





# Remove the Bushing Stop From The Actuation Housing



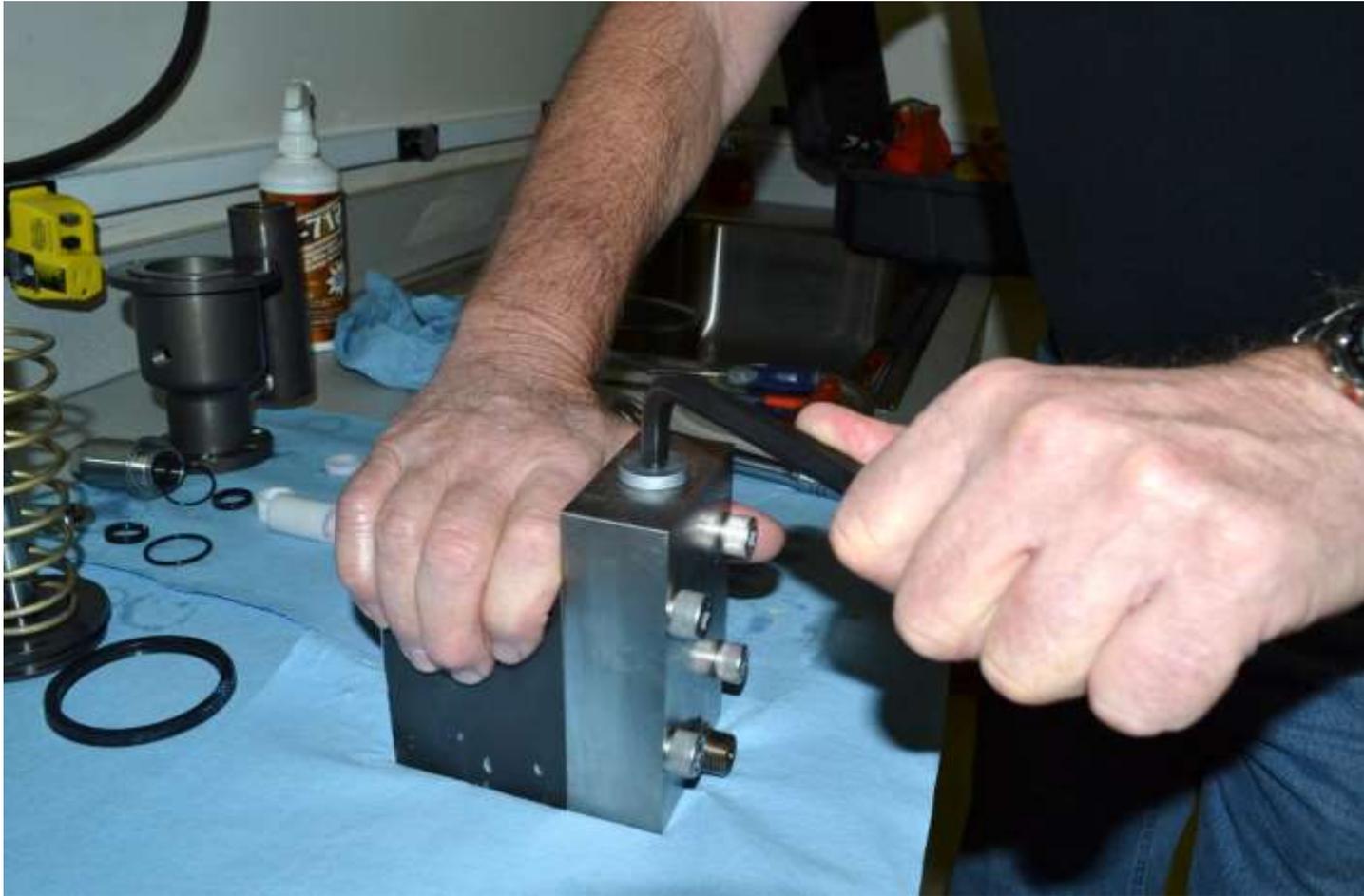


# Actuation and Plunger Parts Shown All Removed





# Loosen The Outlet Check Assembly With 3/8" Allen



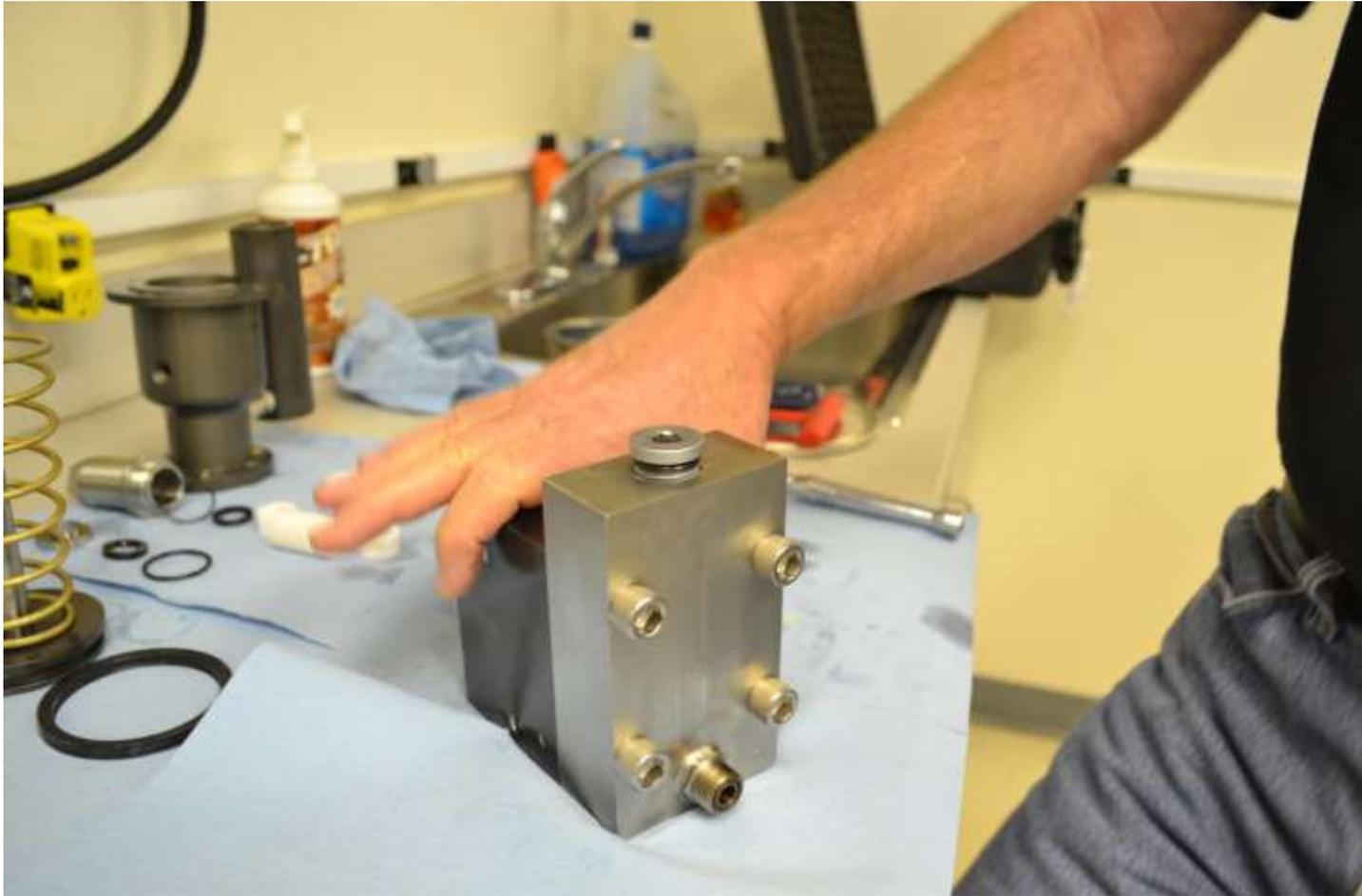


# Outlet Check Assembly Removed





# Remove The Outlet Check Assembly





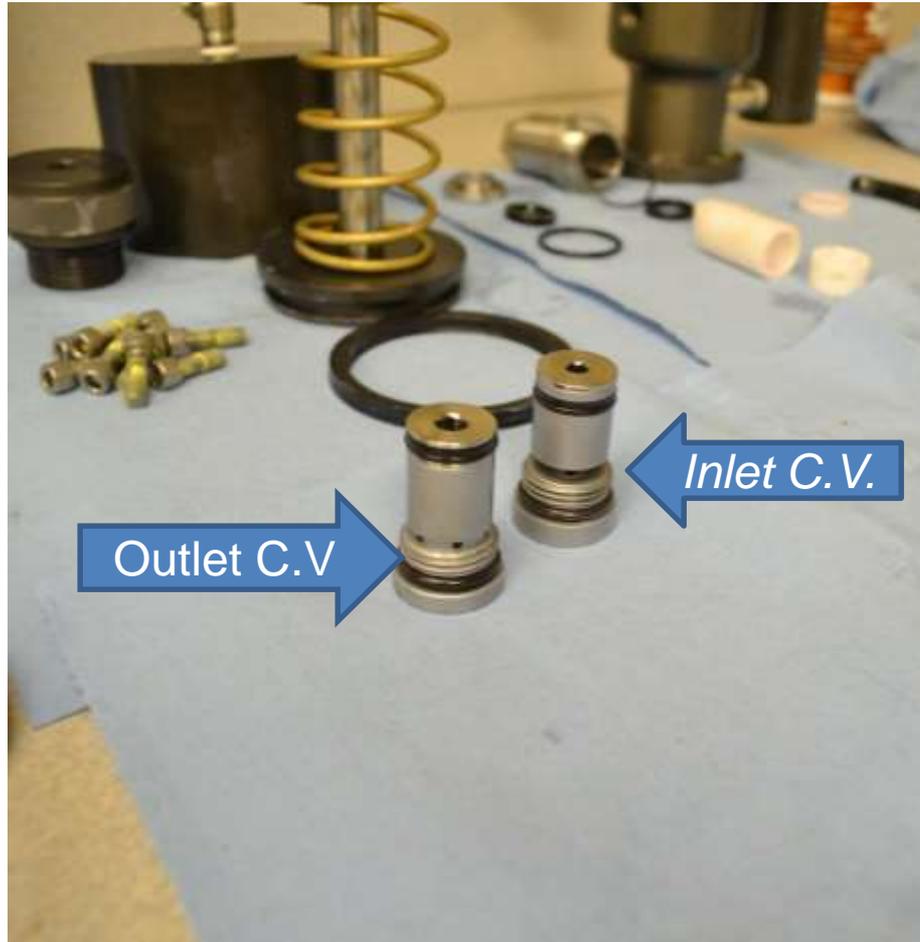
# Remove The Inlet Check Assy.





# Inlet Check Assembly Removed







# Disassemble Inlet C.V.

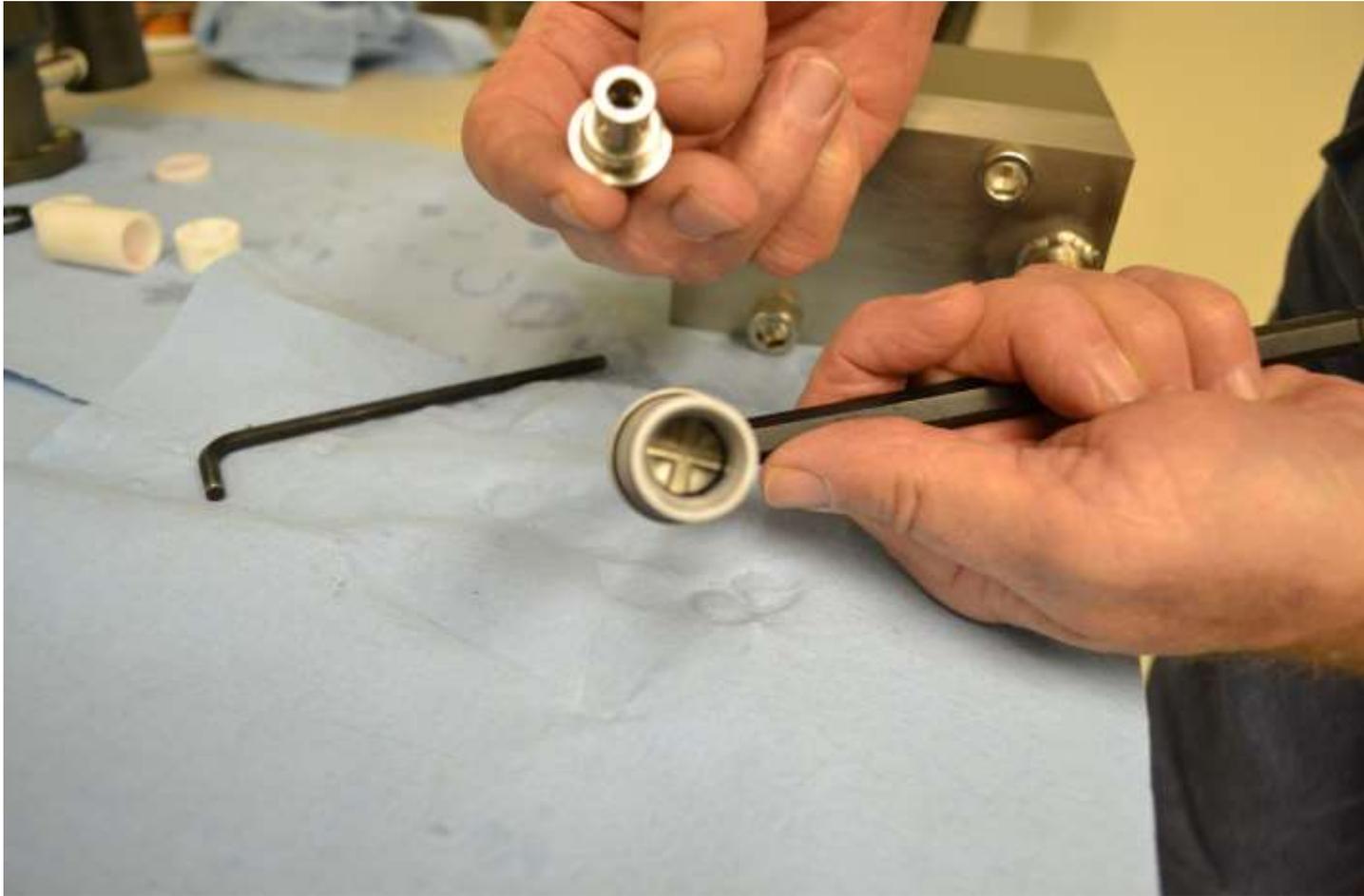








# Notice Wafer Orientation







# Dis-Assemble Discharge Check





After Removing the 1<sup>st</sup> Wafer,  
Install the Bolt From Kit to  
Remove Sleeve





# Remove Sleeve By Pulling on The Bolt Head While Holding The C.V. Body



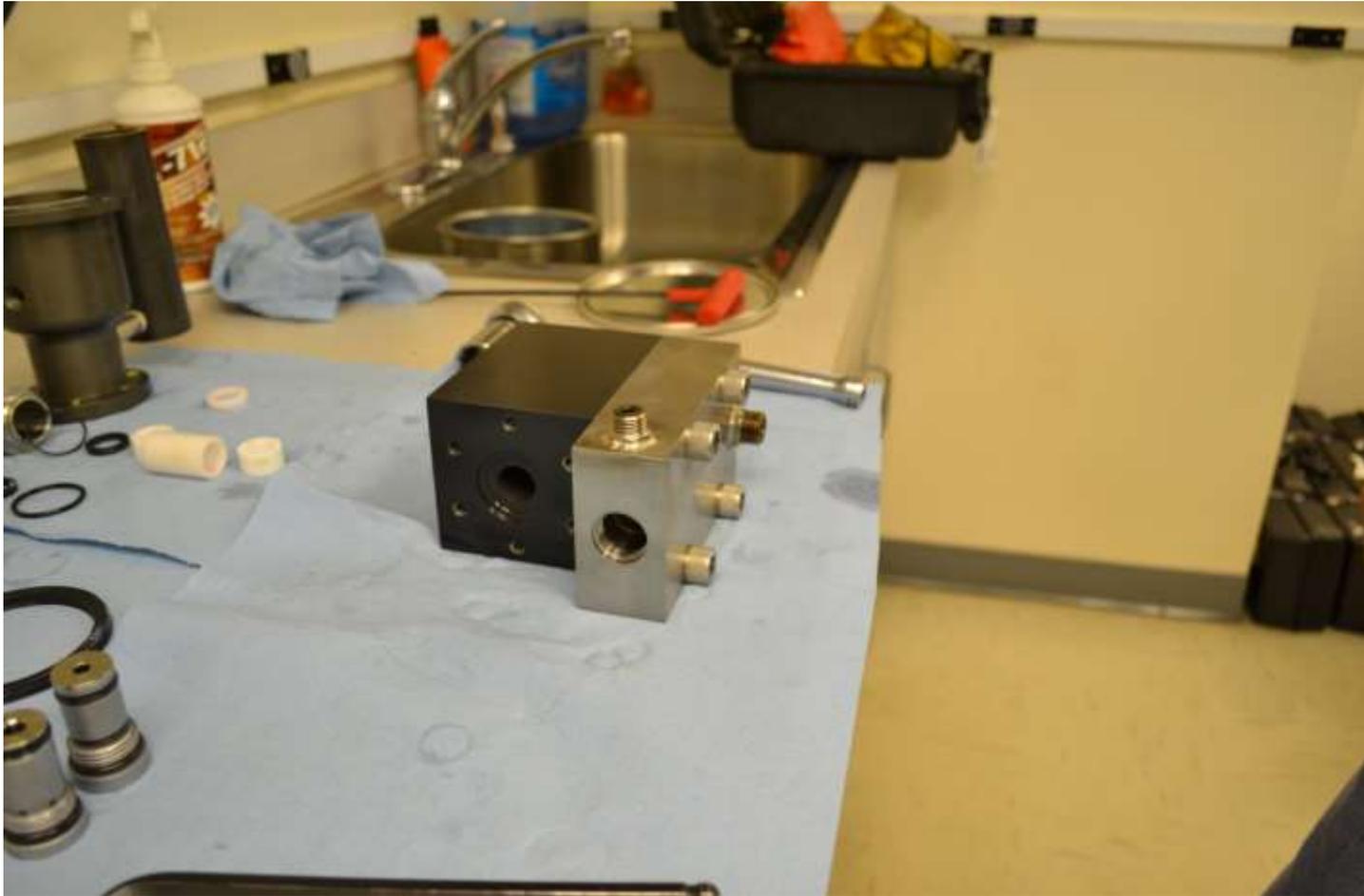


# Remove 2<sup>nd</sup> C.V. Wafer





# Lay Pump Body on It's Side





# Loosen ( 4 ) Cap Screws



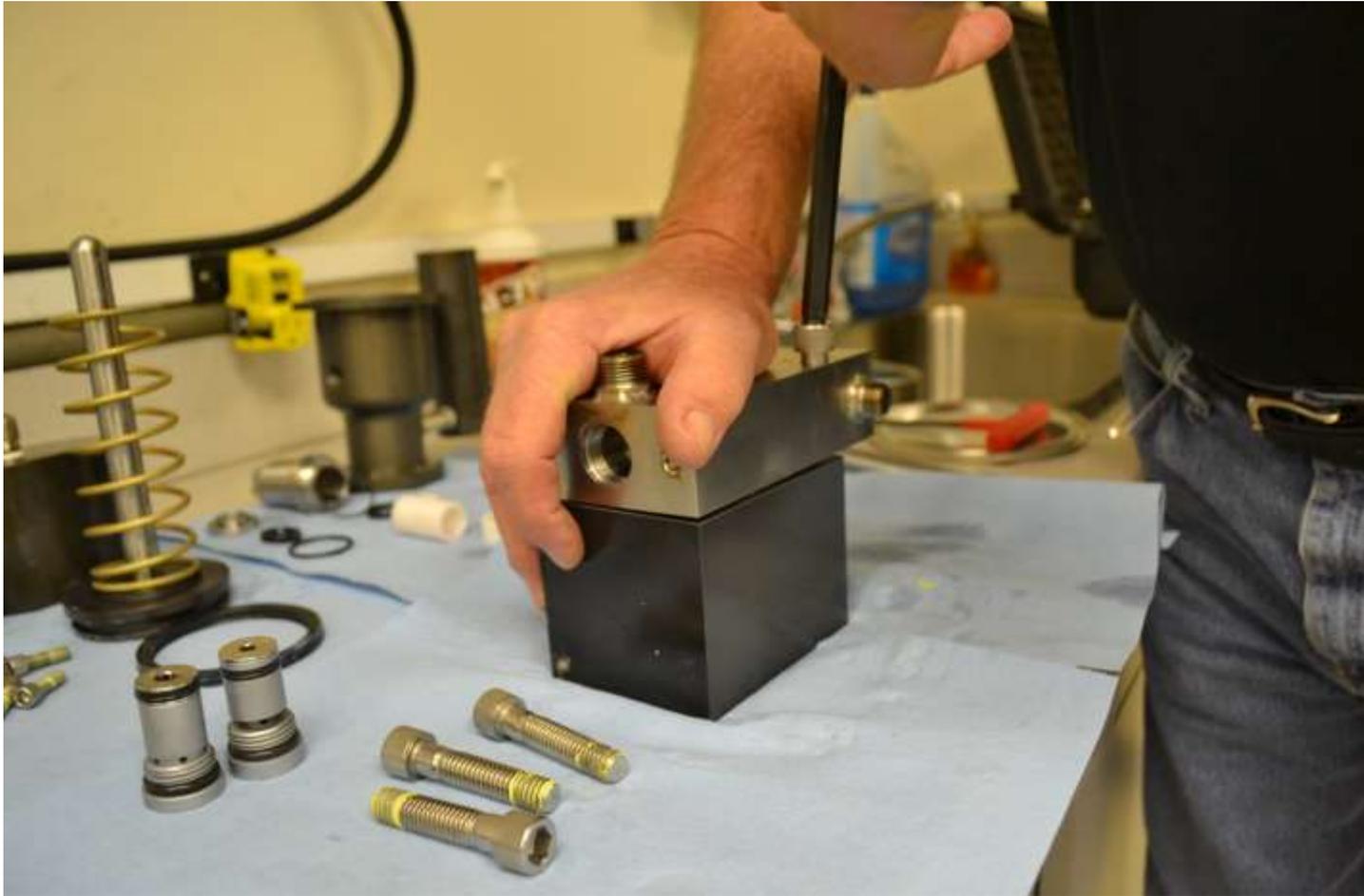


# Turn Assy. Over and Remove Cap Screws



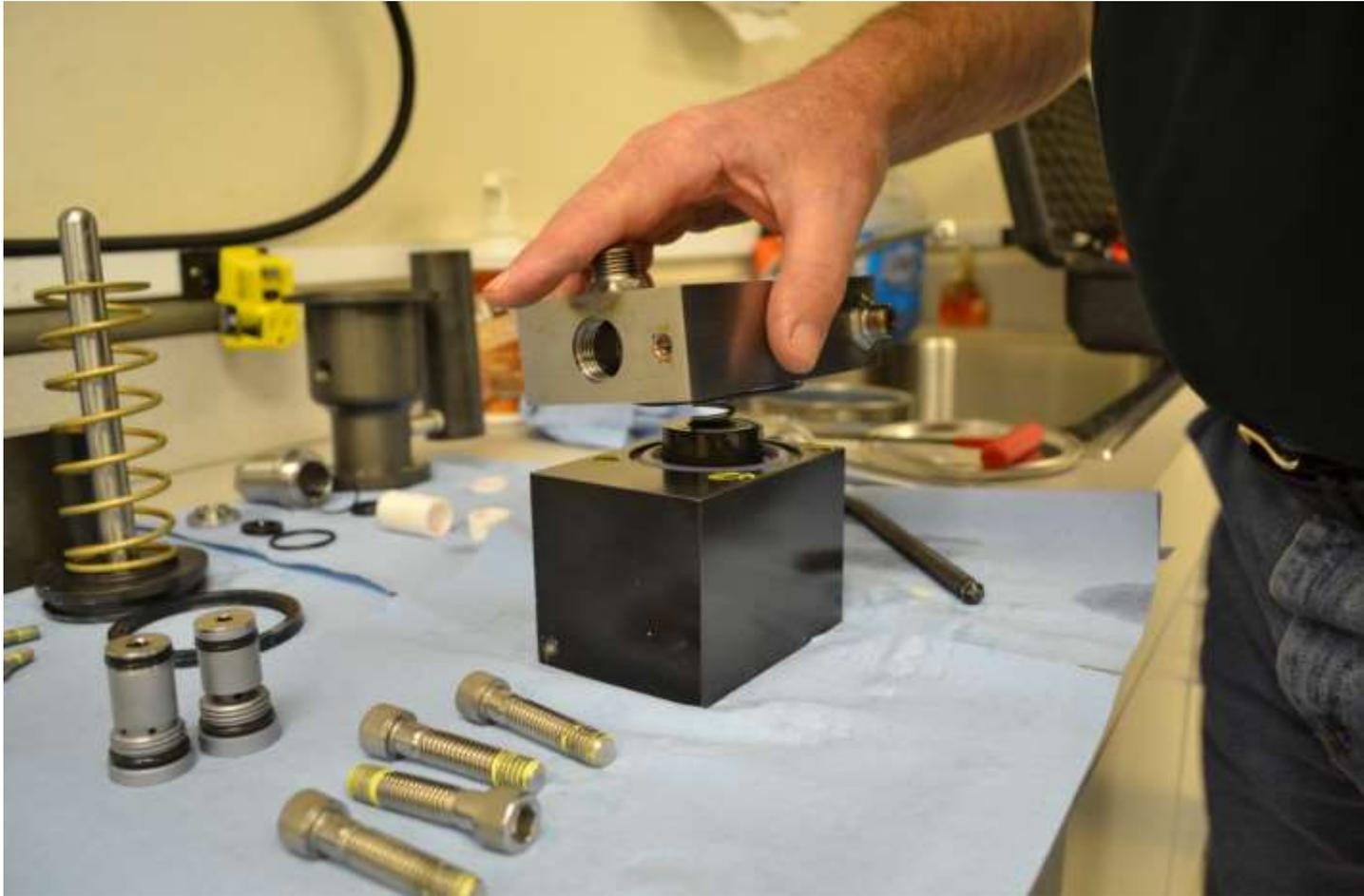


# Hold Odorant Block Down While Removing Final Screw





# Spring Will Separate Bodies





# Bodies Separated



## Remove O-Ring





# Remove Diaphragm and O-rings









# Prepare Parts Required to Re-Assemble



## Assembly Lubricants



Lubriplate 105 Assembly Lube



Dow Corning Molykote 55



# Use MolyKote to Lube and Retain O-Ring P/N A5-1143



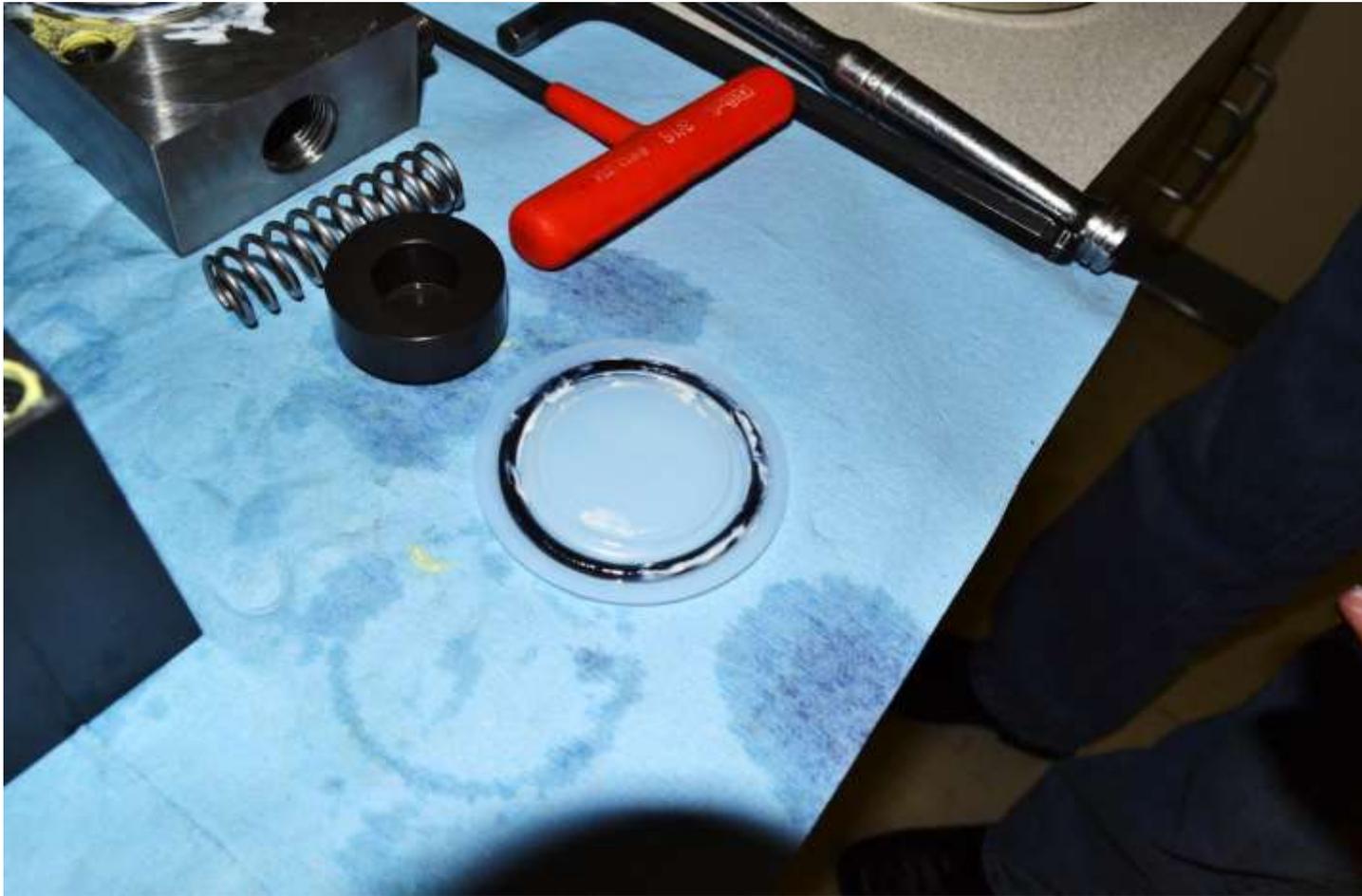


# Install O-Ring P/N A5-1143 on Odorant Block



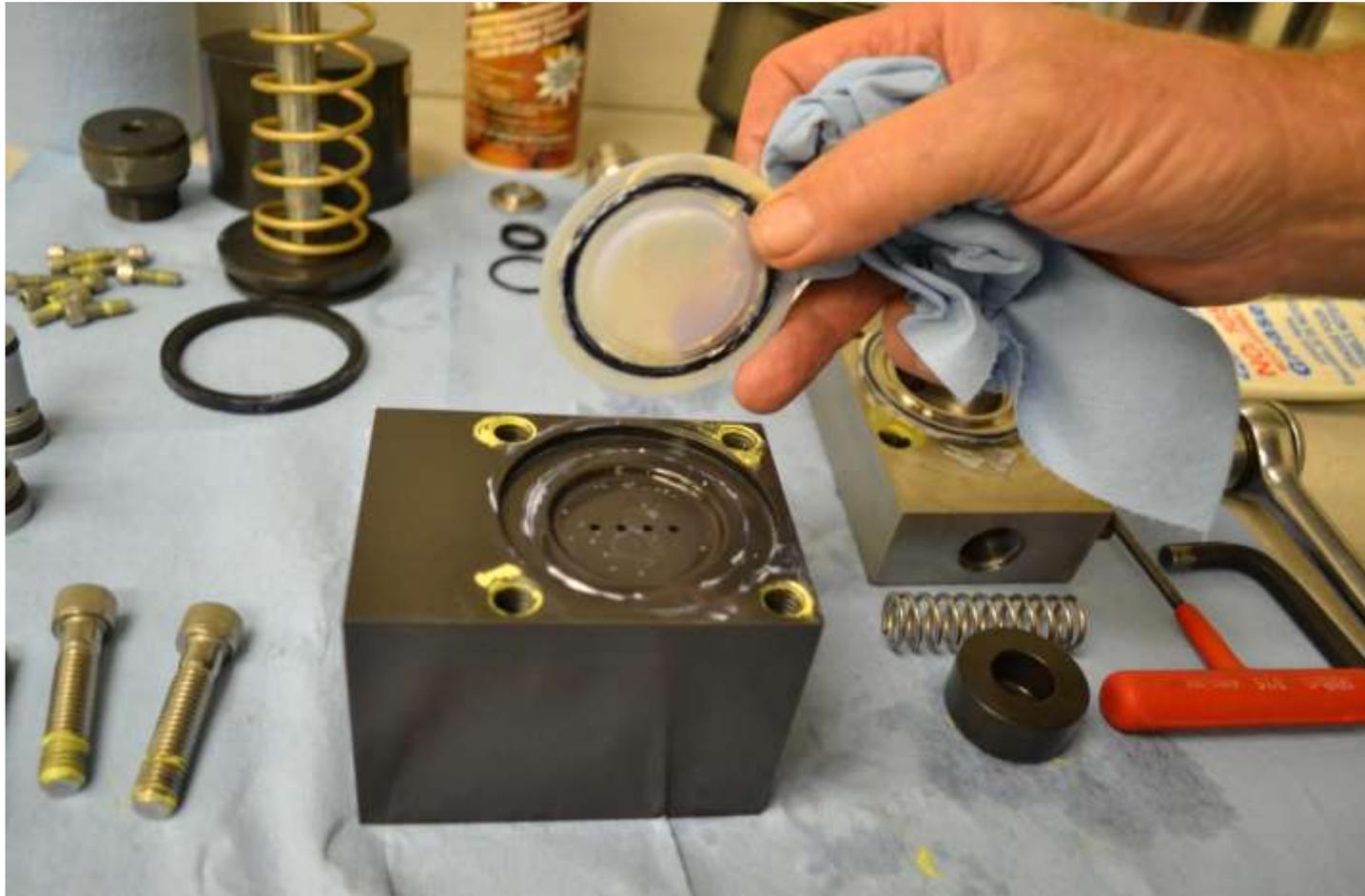


# Lube O-Ring P/N A5-2226





# Install O-Ring & Diaphragm in The Hydraulic Block



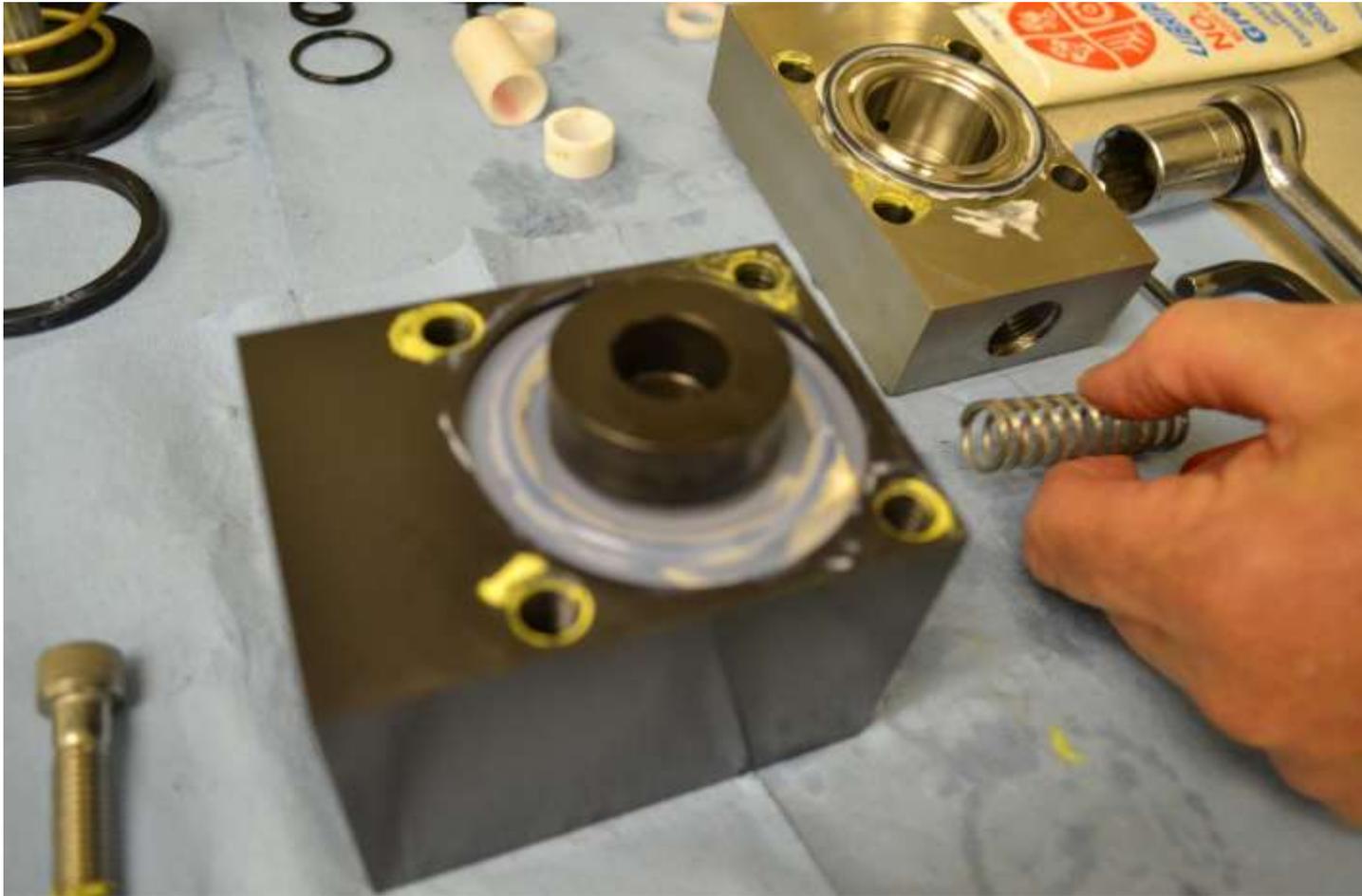


# Diaphragm Installed





# Install Diaphragm Piston

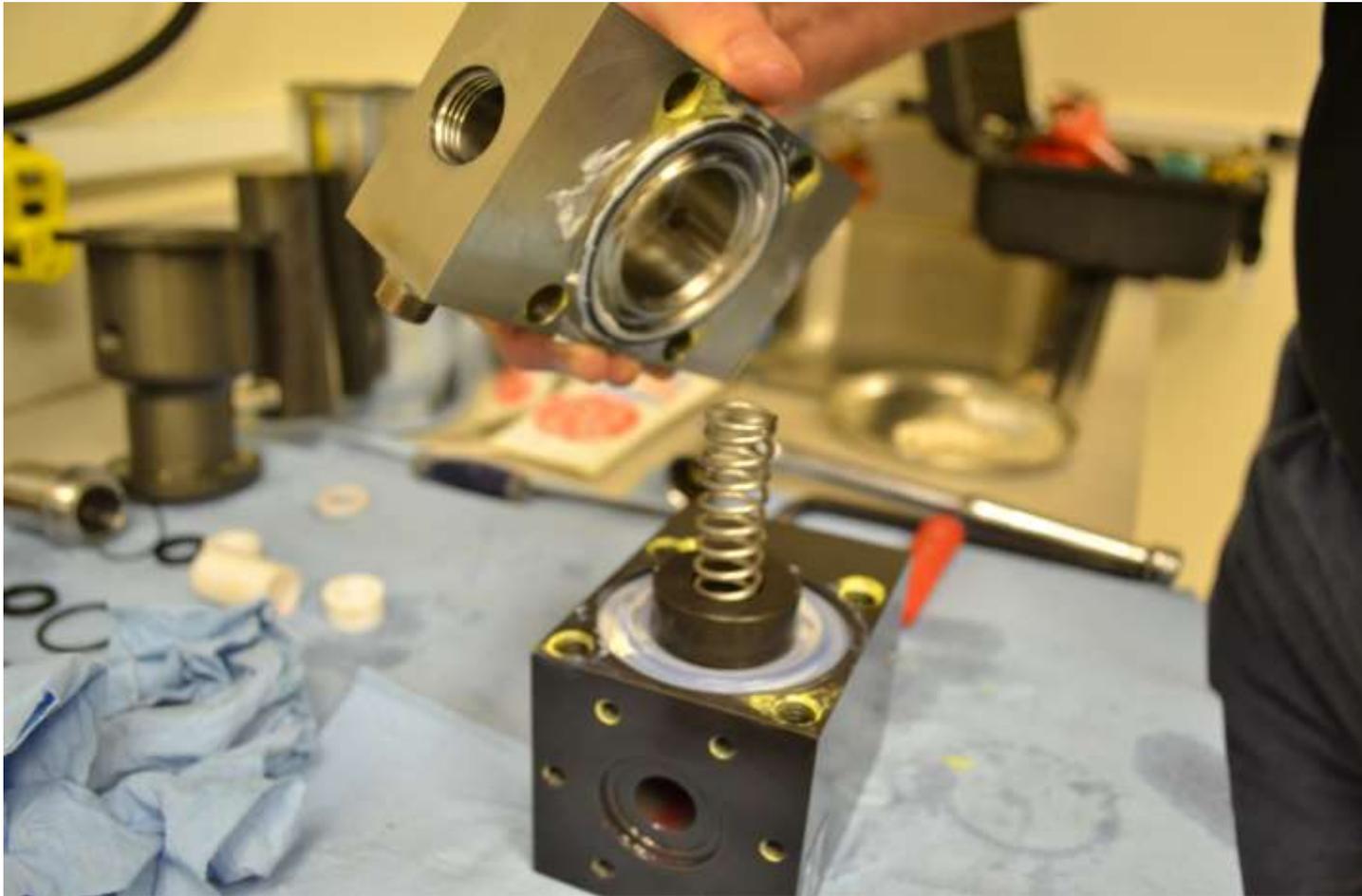


## Install Spring



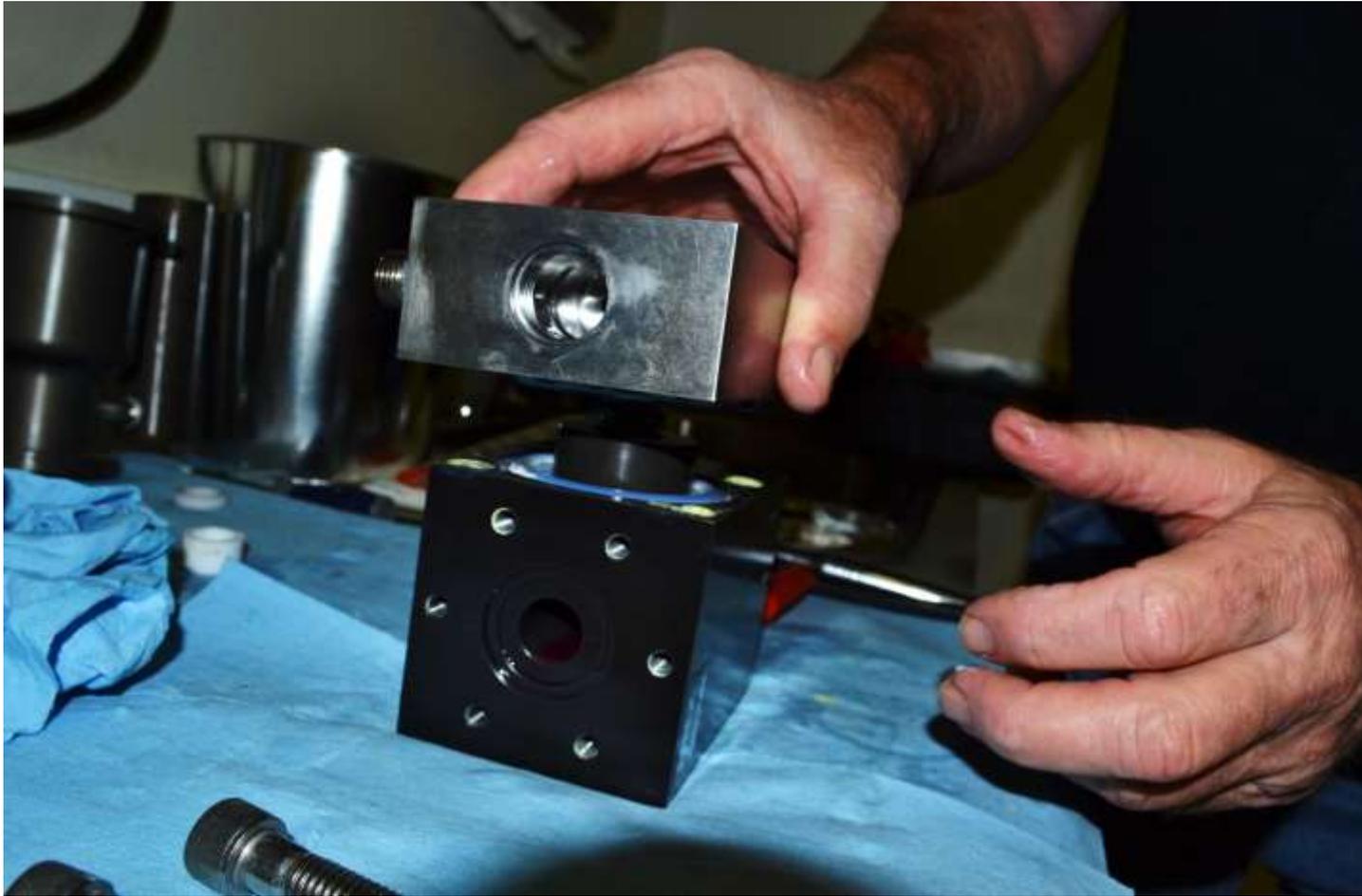


## Place Odorant Block with it's O-Ring Attached Over The Spring



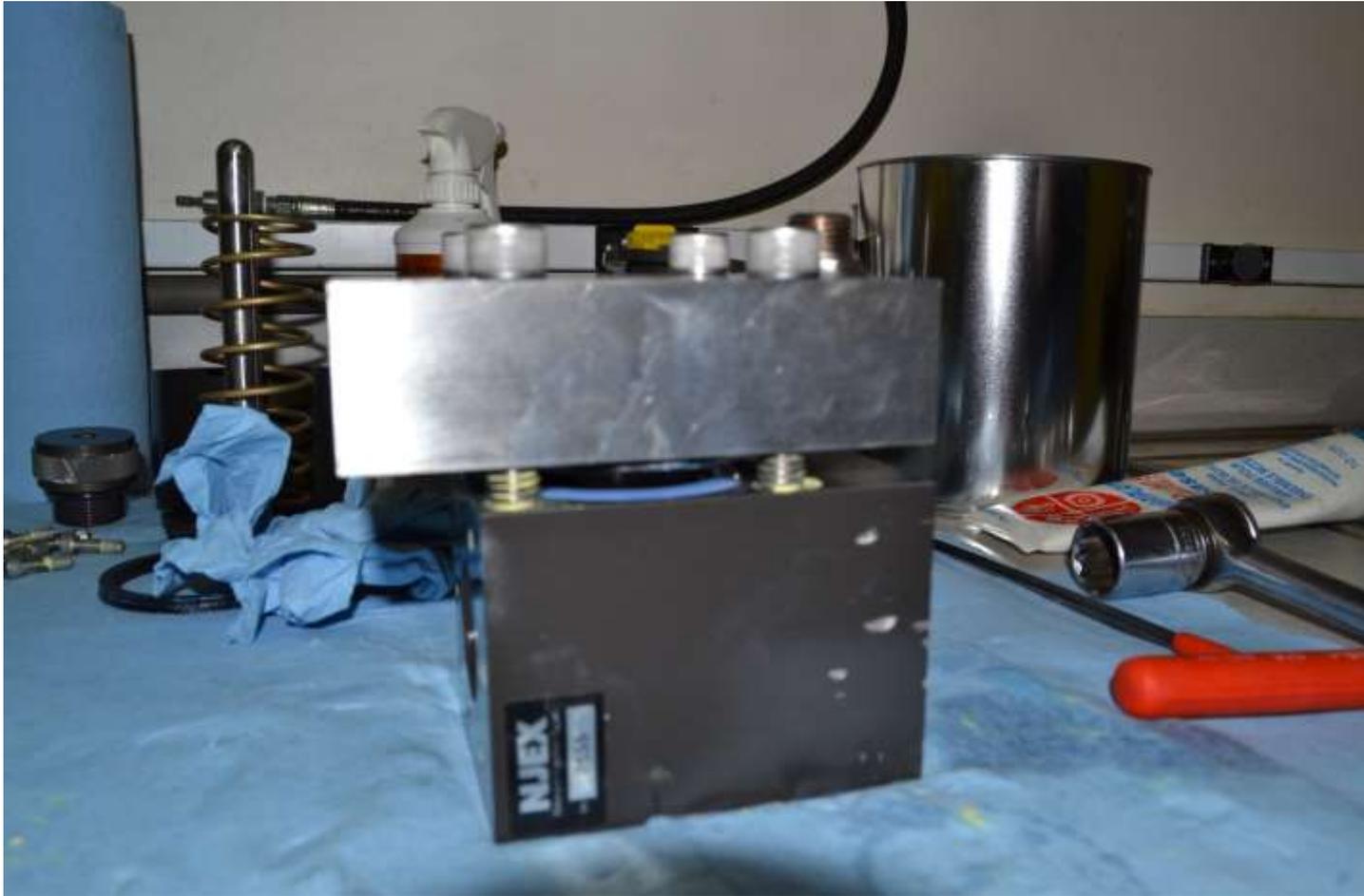


# Press Blocks Together



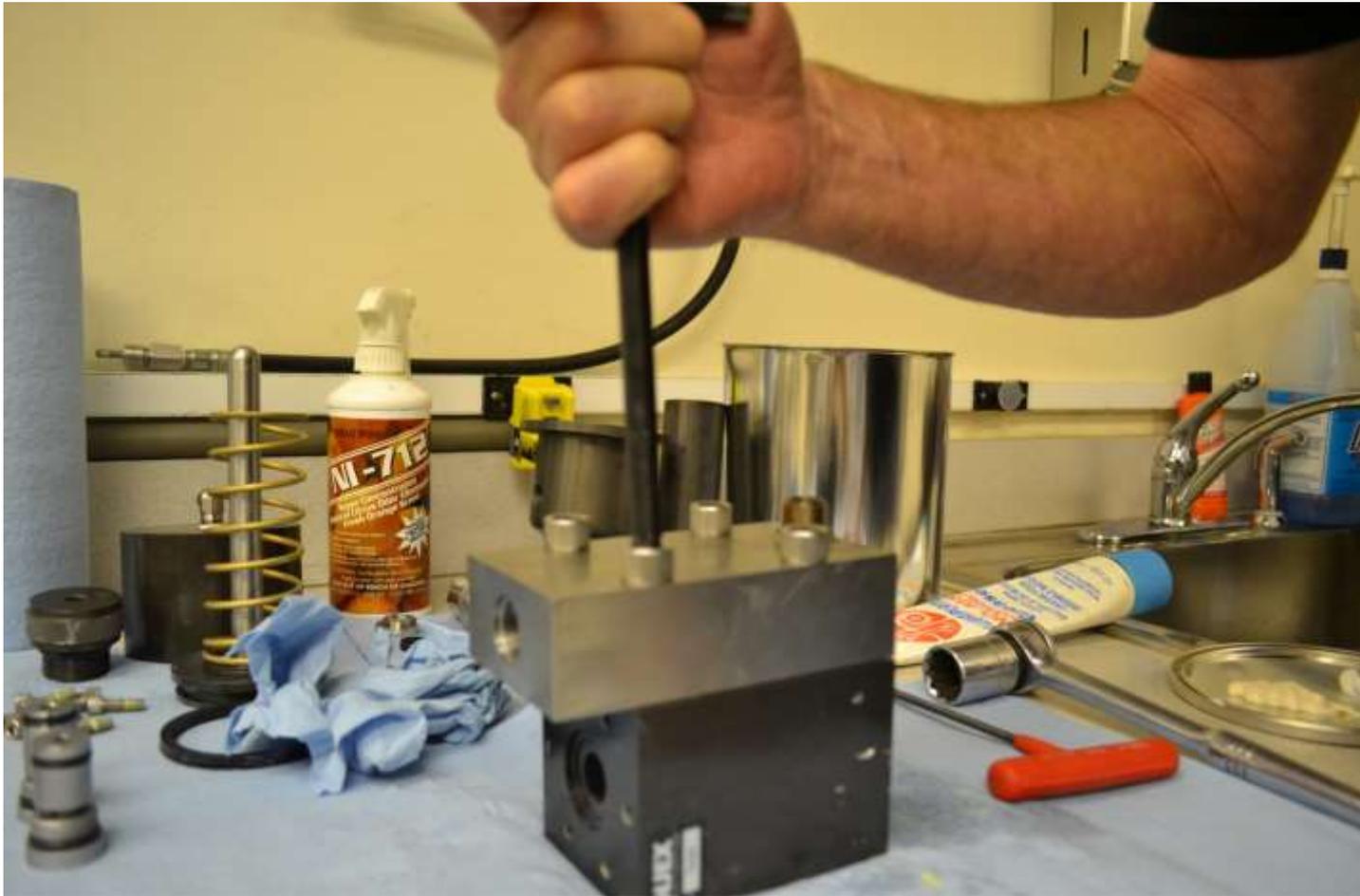


# Install Cap Screws by Hand



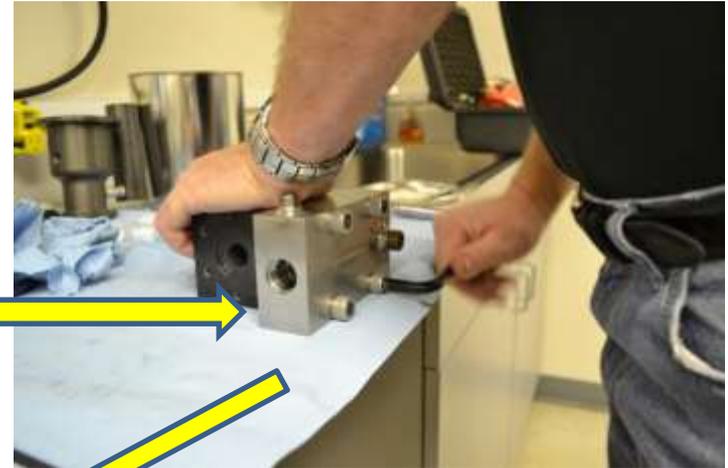


# Tighten Cap Screws Progressively Using a Cross Tightening Pattern





# Tighten Securely Utilizing Cross Tightening Pattern



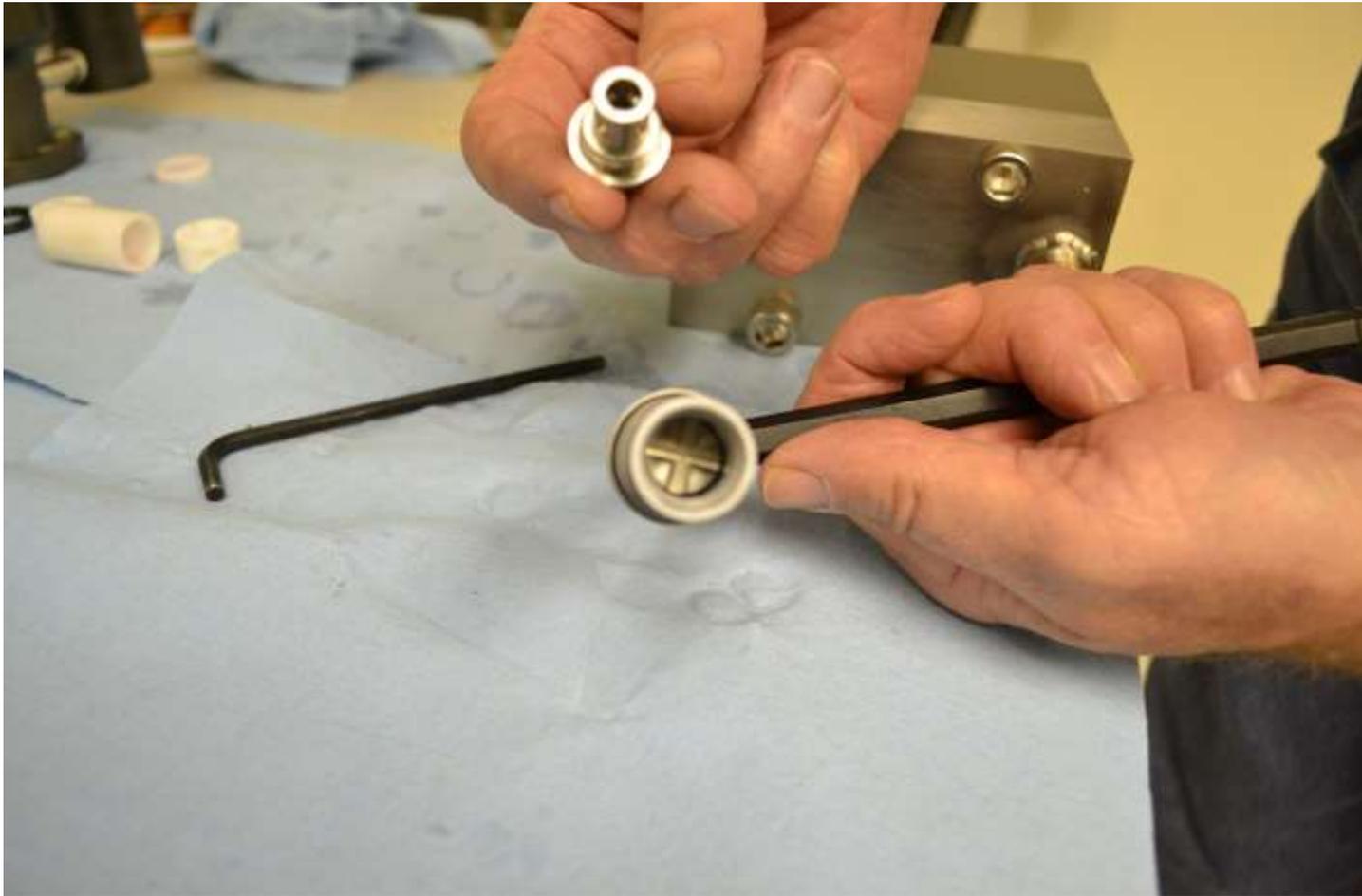


# Lube and Assemble The O-Rings and Back Up Rings on The Inlet C.V. Body





# Install Wafer...Notice Wafer Orientation





# Install The Retainer



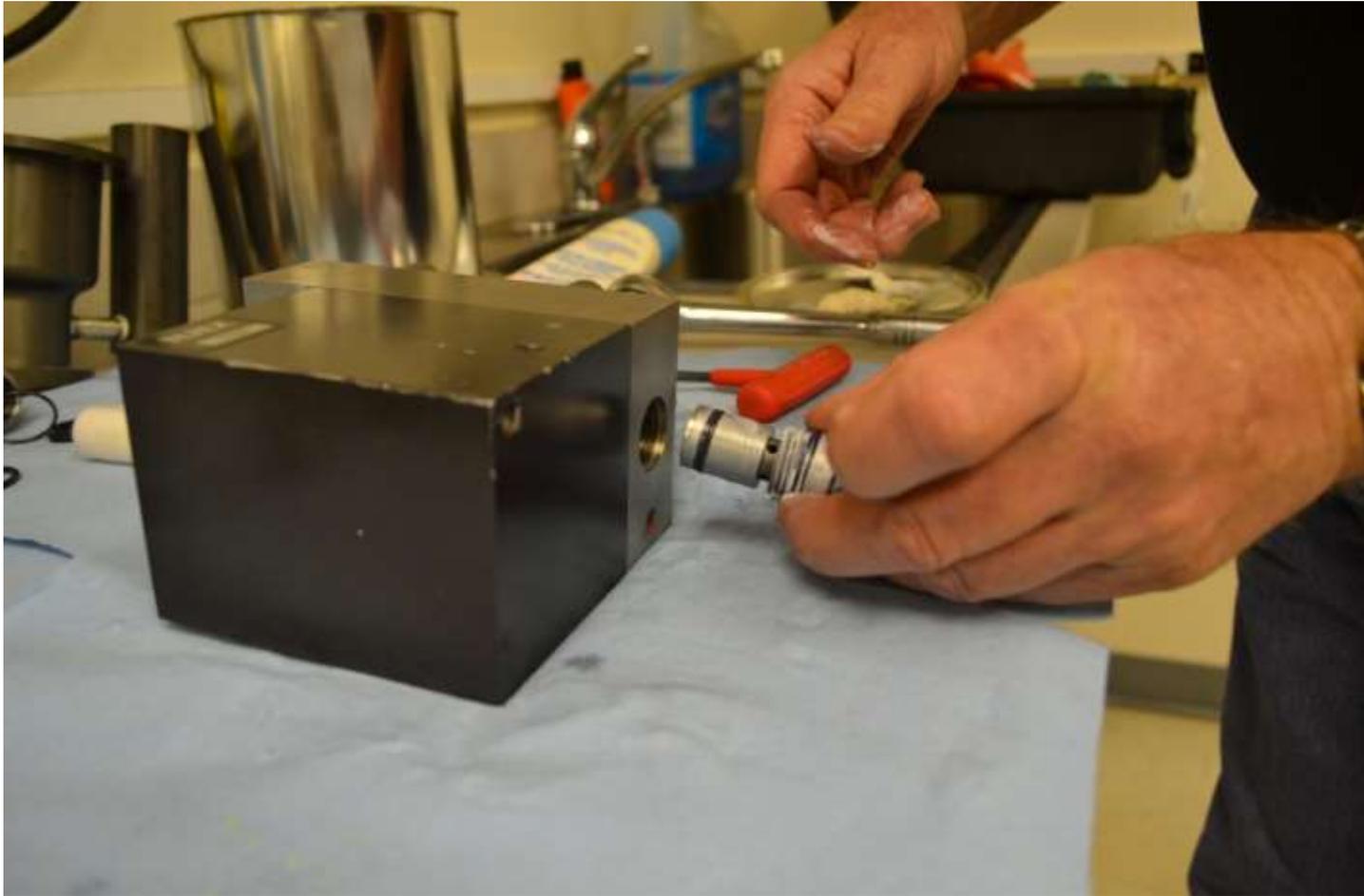


# Tighten The Inlet C.V. Using Two Allen Wrenches



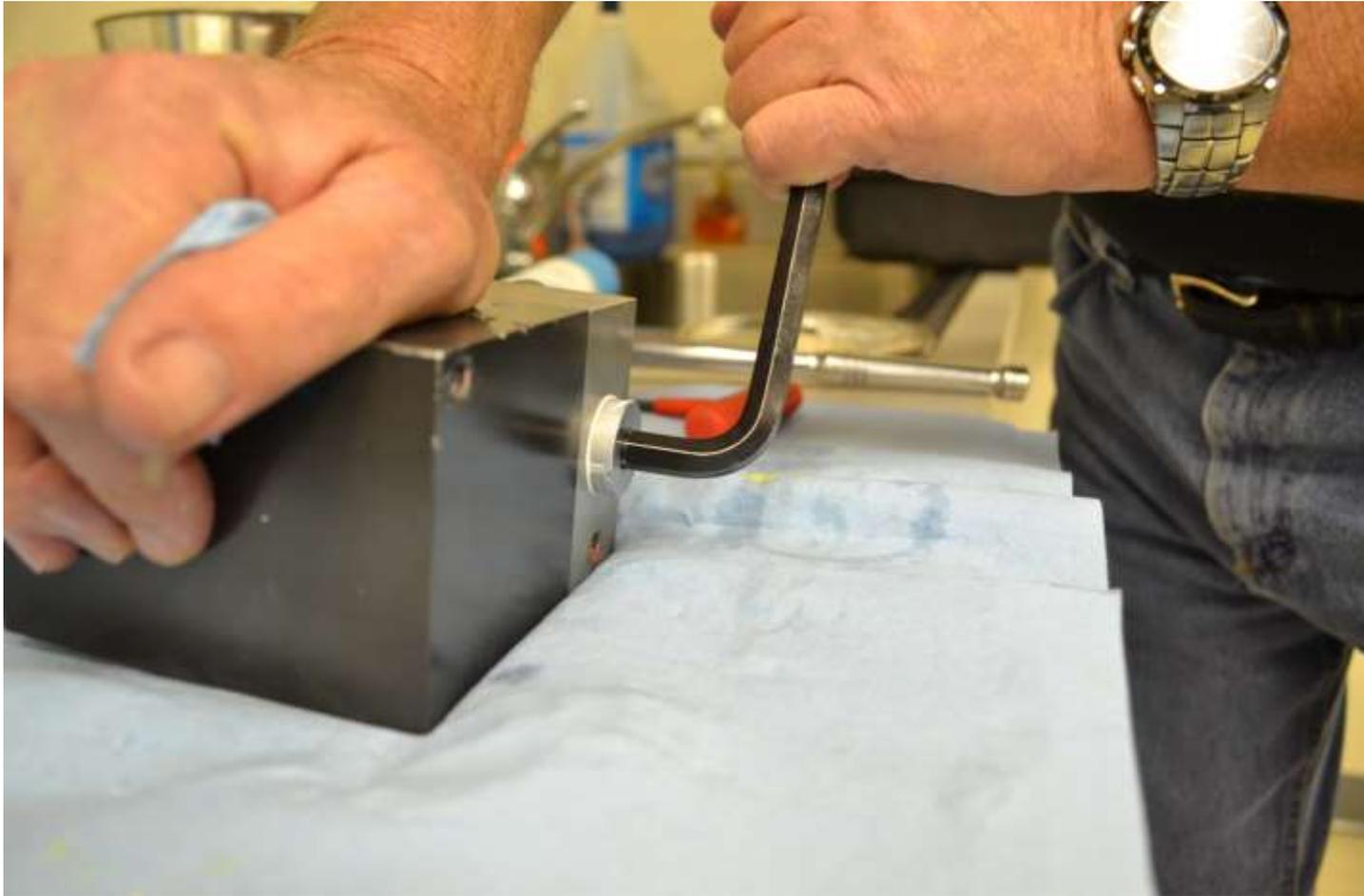


# Install The Inlet C.V. Assembly





# Tighten Inlet C.V. Assembly Securely





## Re-Assemble The Outlet Check-Install 1<sup>st</sup> Wafer (Rubber Side Facing You)





# Install Sleeve with O-Ring





# Press (Snap) Sleeve all the Way Down Using the Bolt From Kit



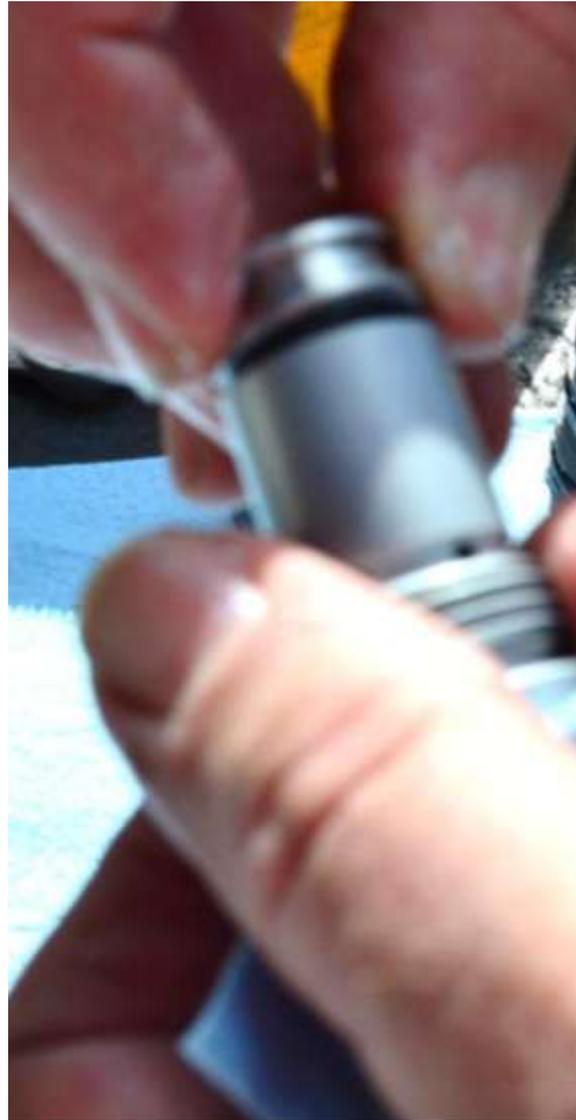


# Install 2<sup>nd</sup> Check Wafer (Rubber Side Facing You)





# Install Seal Nut With O-Ring



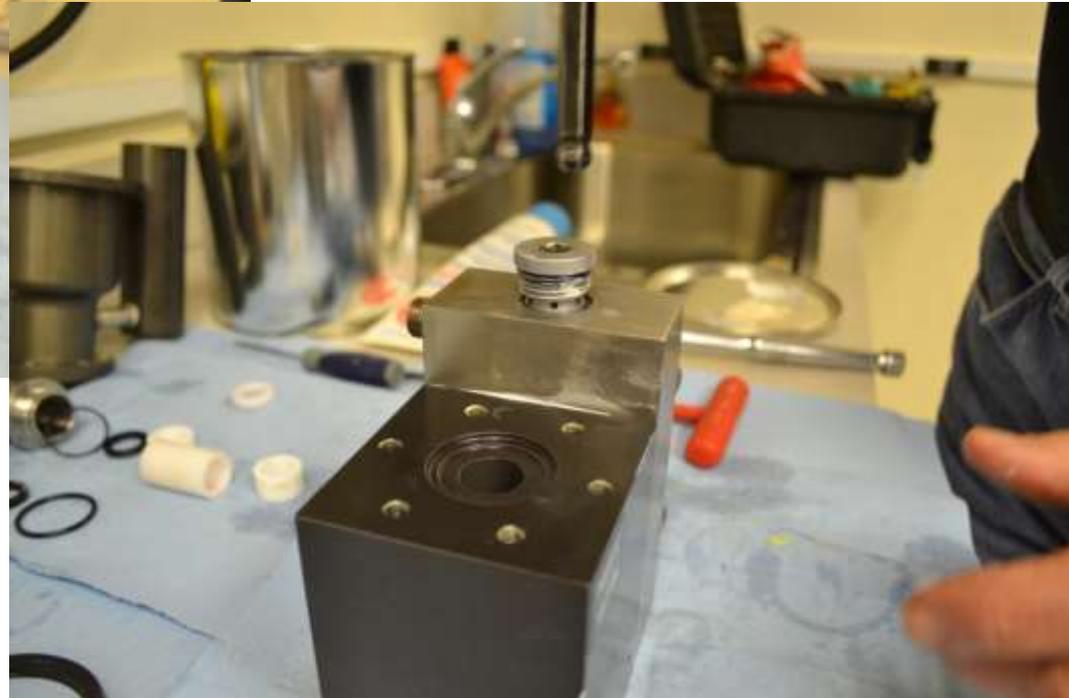


# Tighten Using TWO Allen Wrenches and Install O-Ring and Back Up Ring



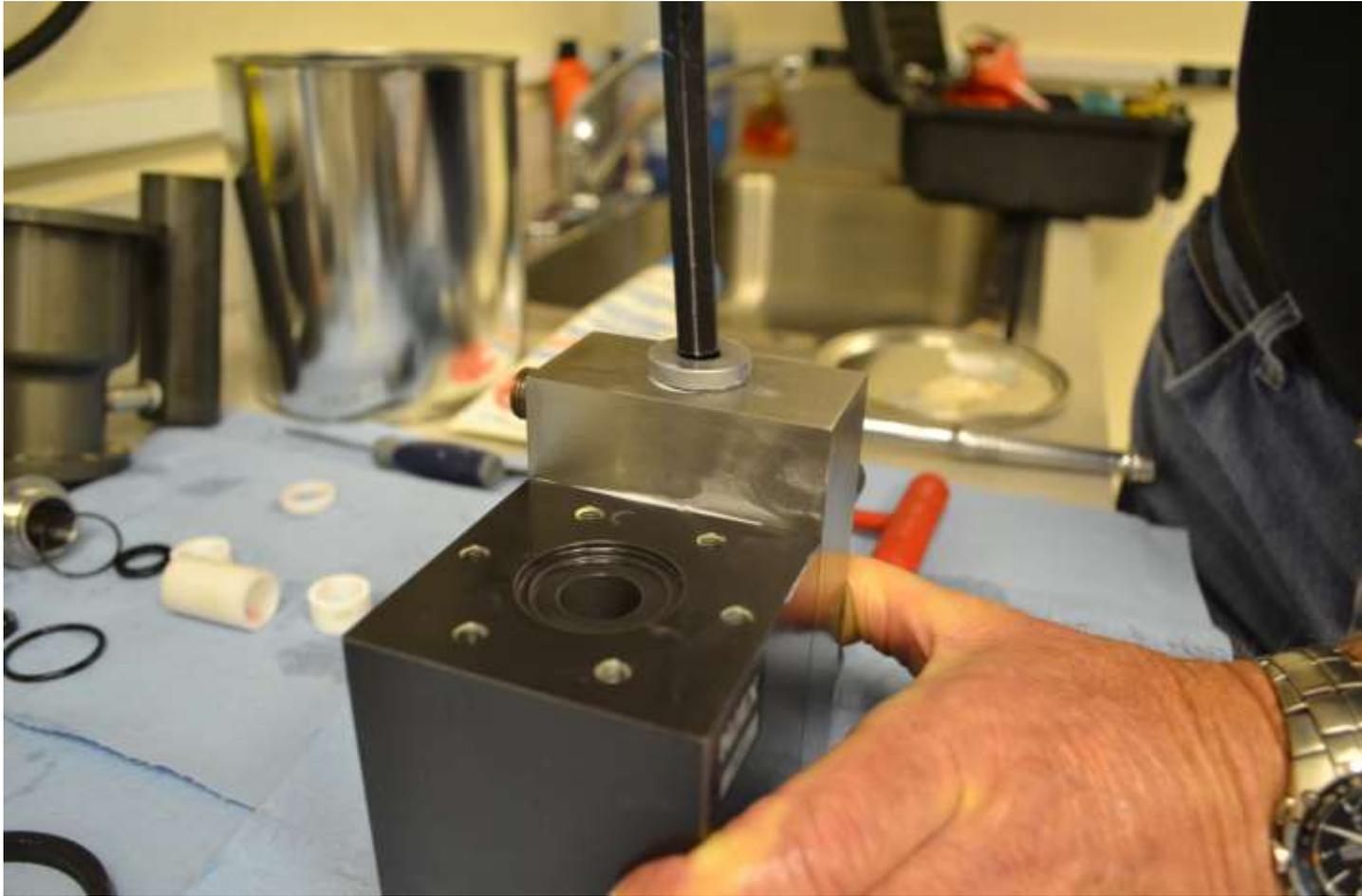


# Install The Outlet C.V. Assembly



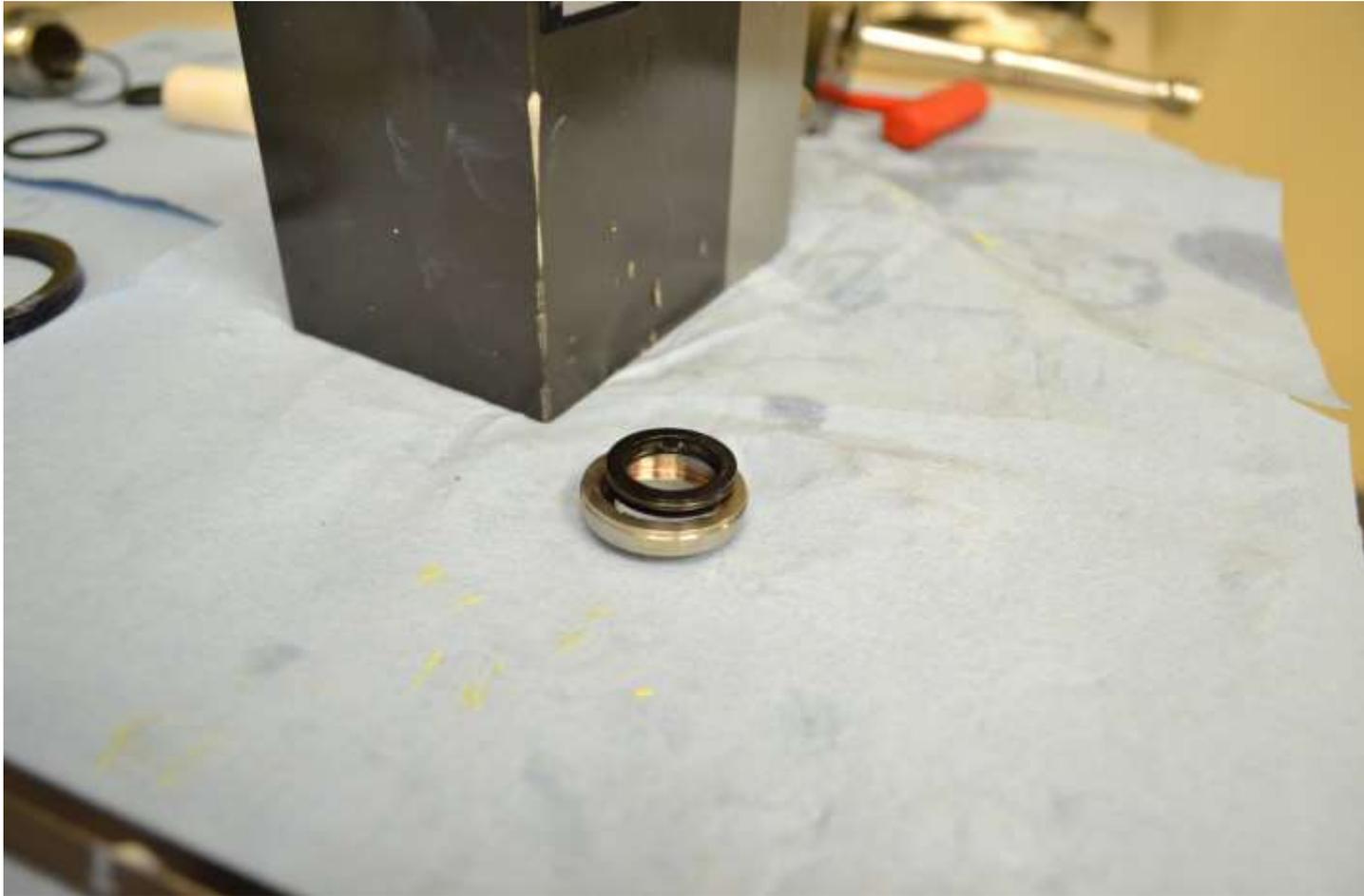


# Tighten The Outlet C.V. Assembly Securely





# Prepare Lower Seal and Retainer for Assembly



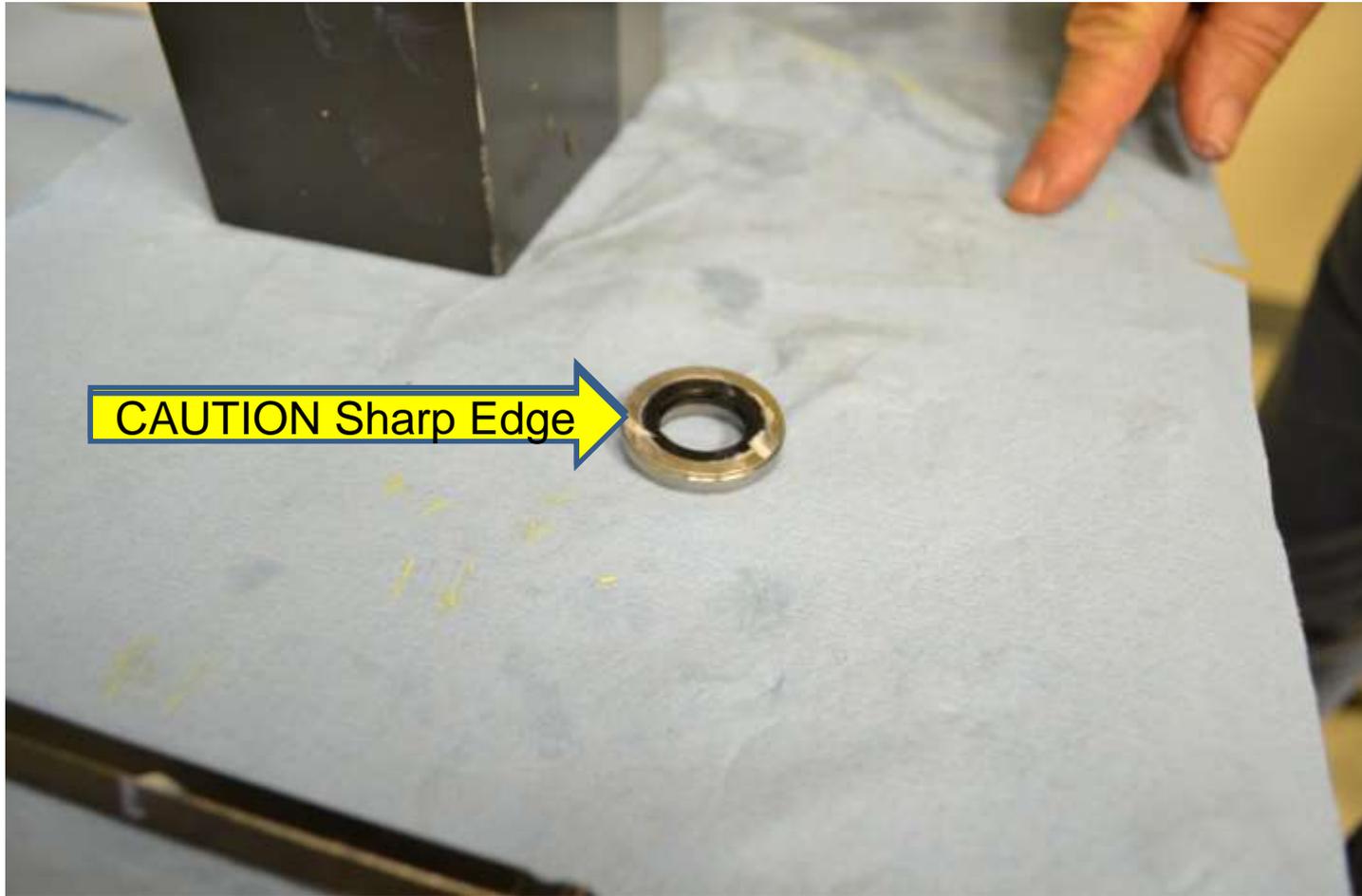


# Lubricate the Seal with Assembly Lube



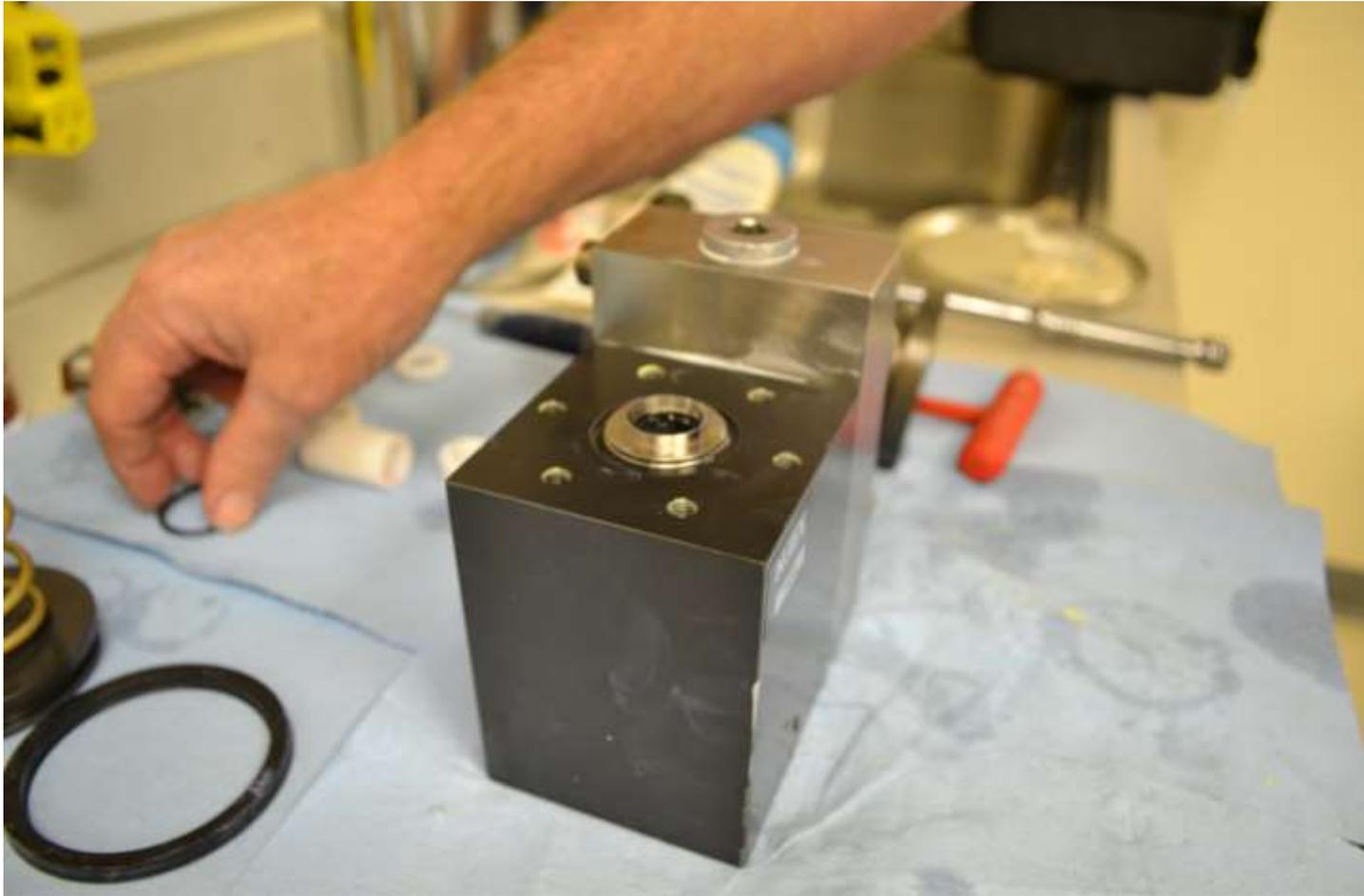


# Press Seal into the Retainer





# Install Seal/Retainer Assy. in The Hydraulic Block





# Lubricate the Retainer O-Ring P/N A5-2123





# Install the O-Ring





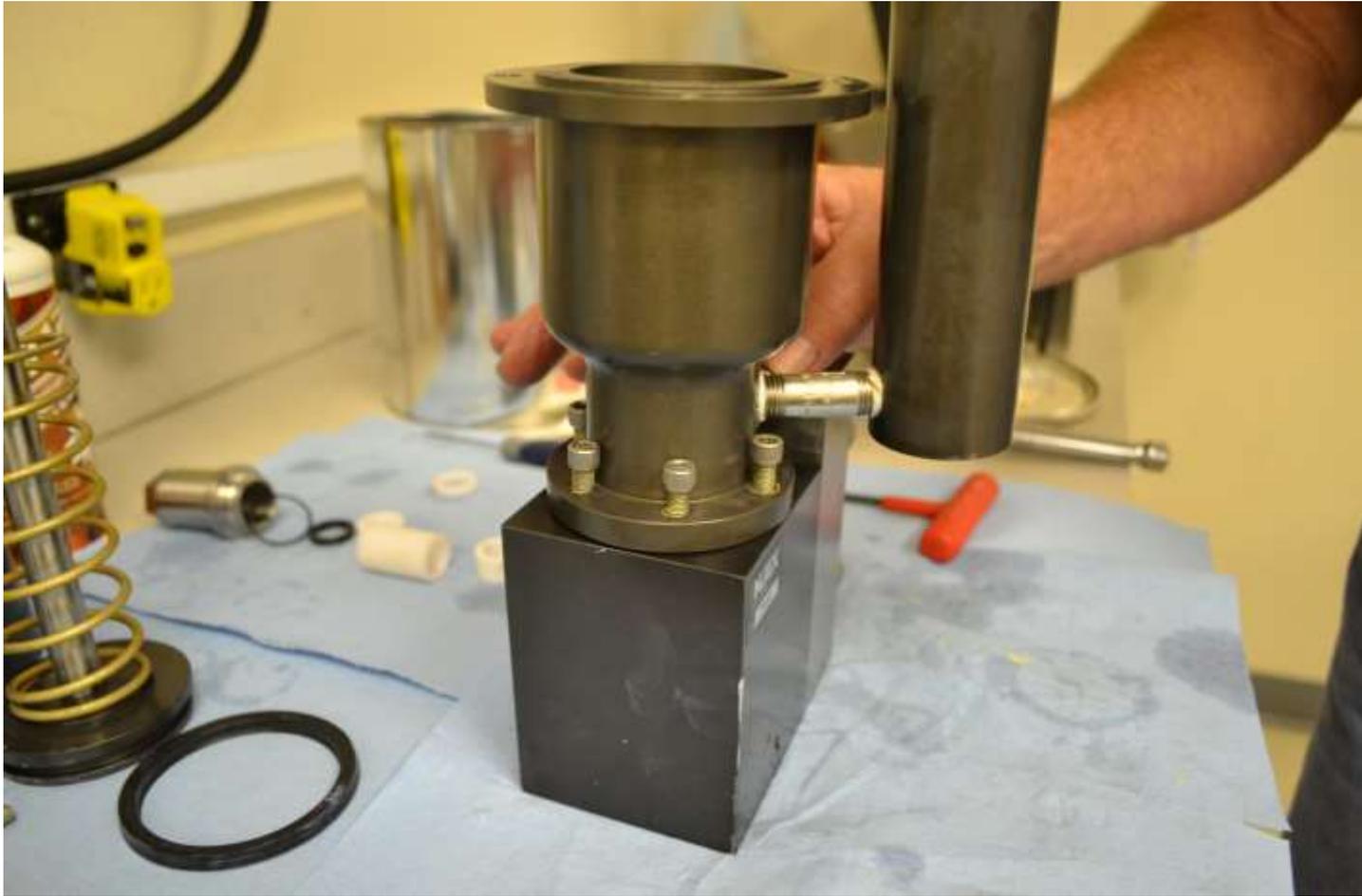
# Prepare to Reinstall the Actuation Housing





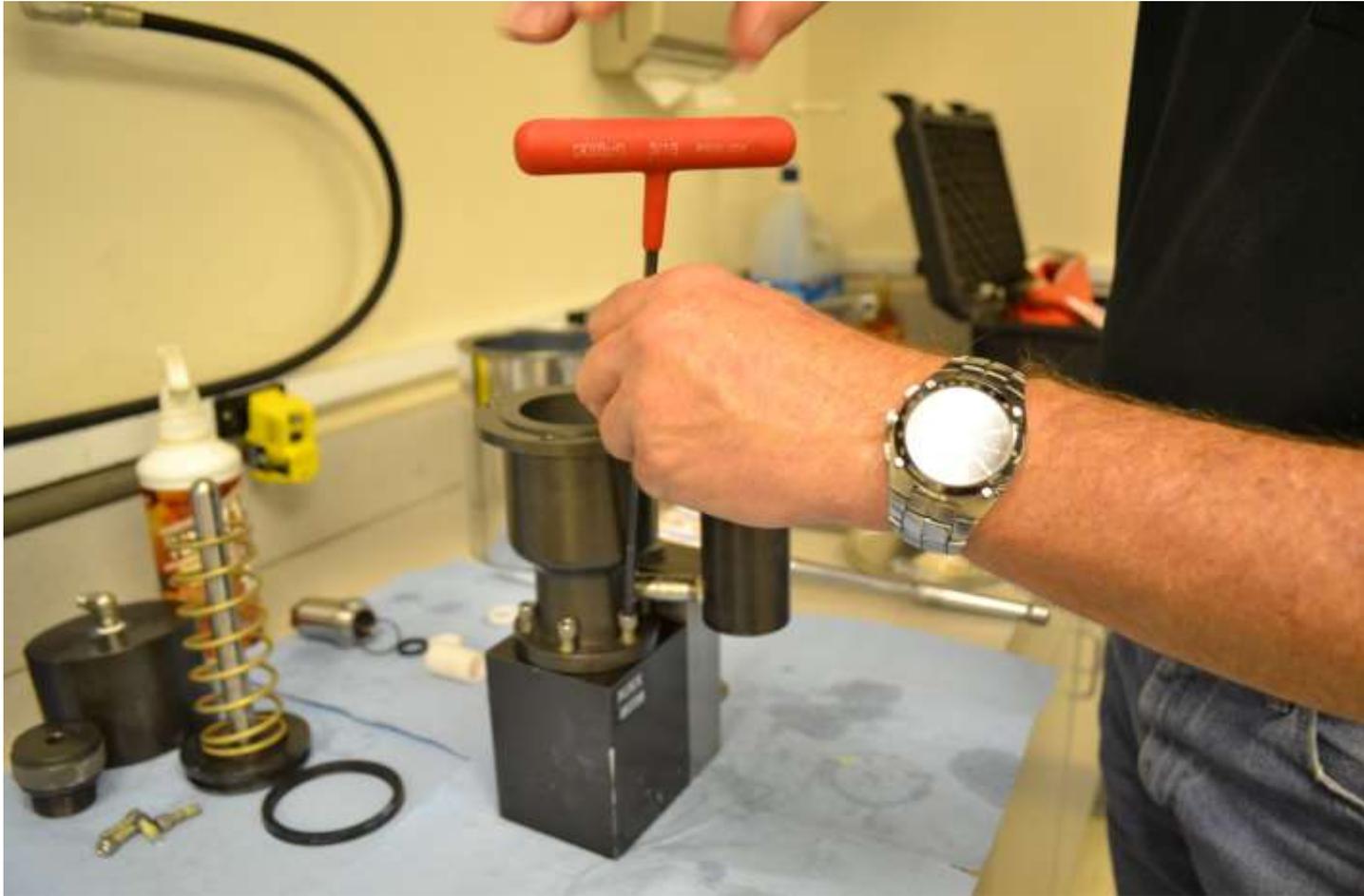
# Align Housings to Original Orientation, and Install Screws







# Tighten All Screws





# Install the Stop Bushing



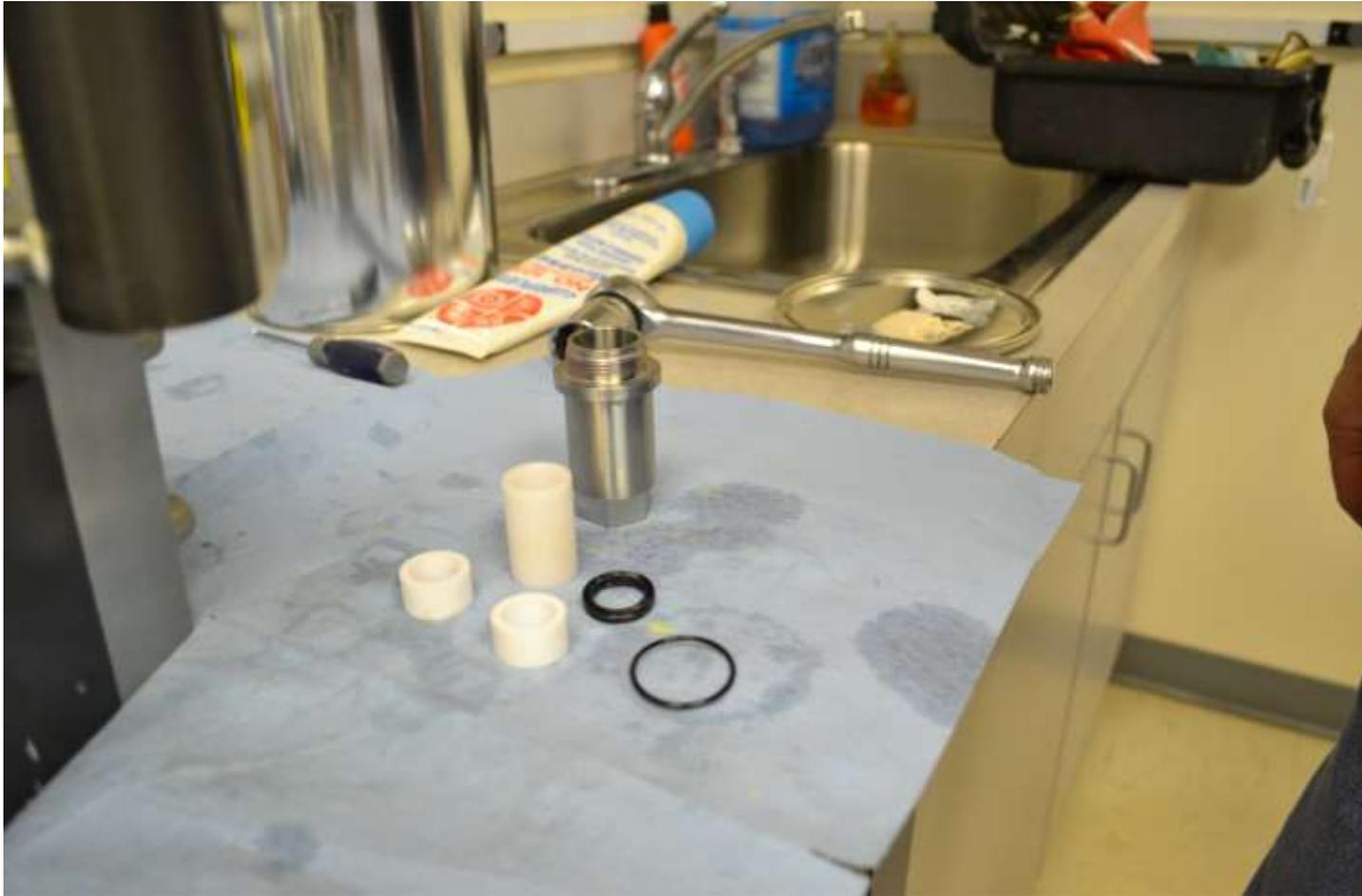


# Stop Bushing Installed





# Prepare Plunger Guide/Seal Assembly





# Lubricate and Install The Seal





# Press Seal ALL the Way into The Housing





# Install One of The Short Bushings





# Install The Long Bushing





# Install The Second Short Bushing





# Lube and Install The P/N A5-2123 O-Ring





# Install The Plunger Guide Assembly





# Use 1" Socket to Tighten





Snug Tighten in Place...  
**DO NOT OVERTIGHTEN**





# Install The Spring





# Lube and Install Actuation Seal on The Actuation Piston









# Lubricate The Seal Fully





# Install Piston/Plunger Assembly





# Test Press the Piston Assembly Completely a Couple of Cycles





# Angle Actuation Cylinder at 45° for Installation





# Align for Correct Orientation





# Press Down





# Install Screws





# Tighten Screws





# Add NJEX Oil To The 1<sup>st</sup> Thread in The Reservoir





# Tilt the Pump Partially in Several Directions to Get The Trapped Air Out of The Hydraulic Block





# Proper Oil Level After Air has Been Removed is Approximately Midway in The Reservoir



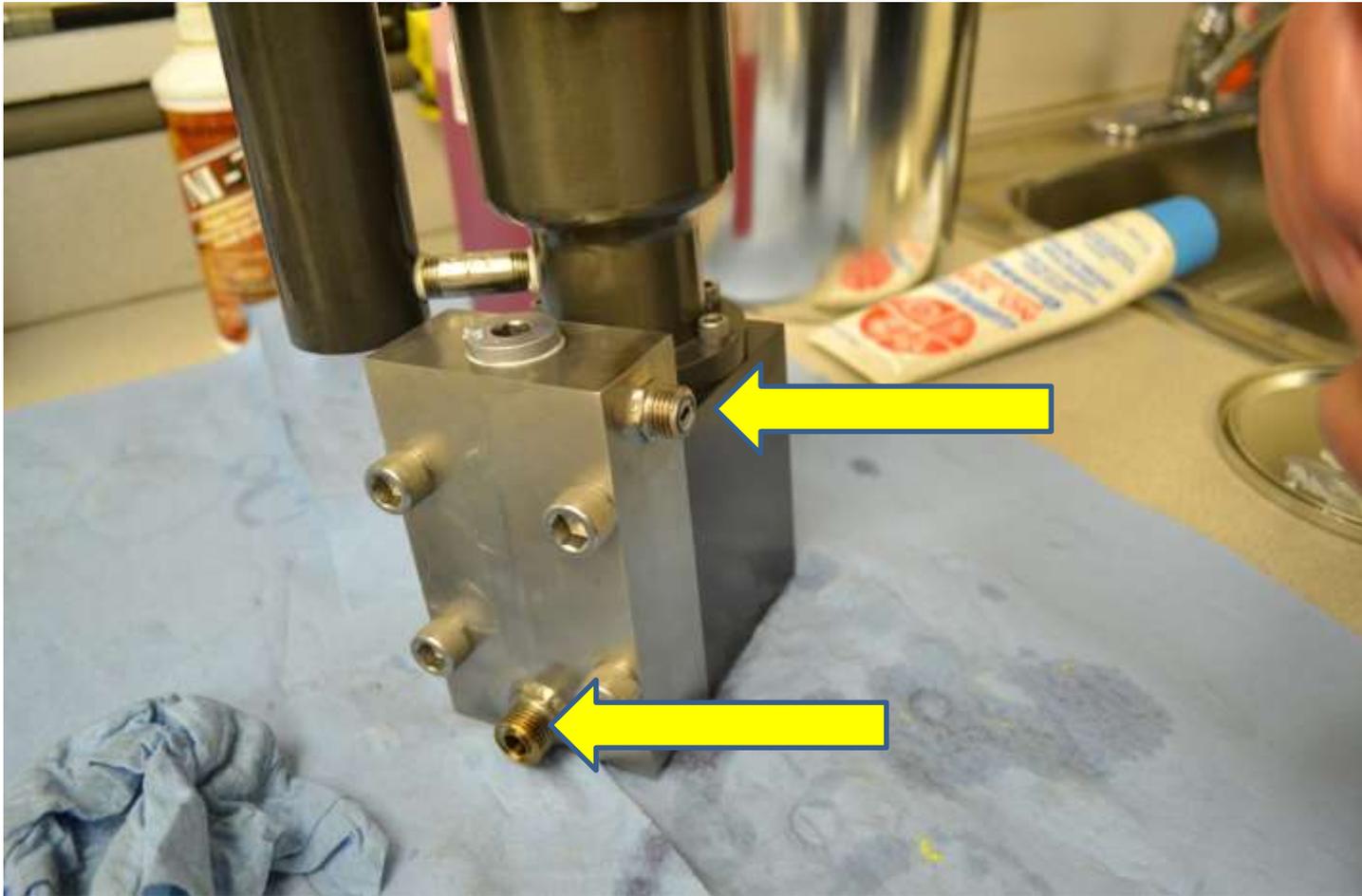


# Replace The Oil Reservoir Cap



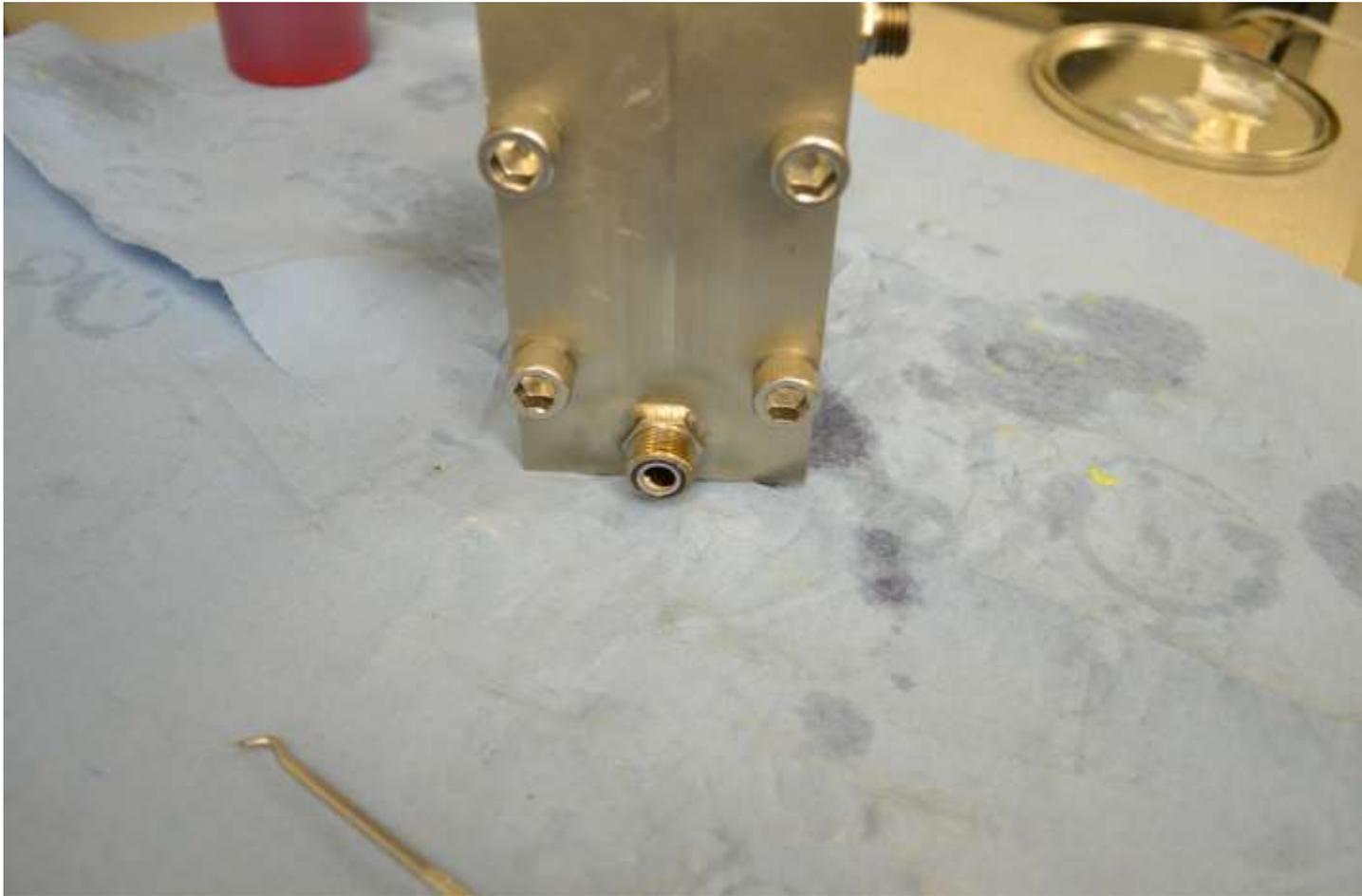


# Lubricate and Replace External Connection O-Rings





# External Connection O-Rings Replaced





# Restart System

- Install Pump In System
- Close V-2, V-3 & V-5
- Open V-4 Until Expansion Tank Pressure Reaches 25 psi.
- Open Odorant Supply Valve V15 or V17 as Equipped.
- Fill Verometer on Meter Level Window
- Prime Pump (V3)
- Open V6 & V8
- Start The System
- Call 1-800-653-9435 if you need assistance.