



# 915J Continuous Mercury Monitor Preventative Maintenance Checklist Quarter 3

Company/Plant | \_\_\_\_\_ Date | \_\_\_\_\_

Unit Serial Number | \_\_\_\_\_ Service Performed by | \_\_\_\_\_

☐ Probe and Umbilical Line |

- ☐ Check probe and umbilical line for proper heating
- ☐ Clean probe

☐ Probe Head |

- ☐ Check for proper heating of all components
- ☐ Replace total scrubber MT-001
- ☐ Replace elemental scrubber MT-002D
- ☐ Clean and sonicate titanium filter MT-010
- ☐ Clean filter housing & lid assembly MT-035, MT-009
- ☐ Inspect Viton O-rings in filter lid assembly MT-004. Replace if necessary.
- ☐ Inspect Teflon lines and replace if discolored or damaged. If any line from speciation valve is discolored, clean valve MT-030

☐ Console |

- ☐ Check for proper heating

☐ Enclosure |

- ☐ Check for proper heating & cooling
- ☐ Inspect and clean air conditioner filter (rinse with soapy water and vacuum excess water before reinstalling)
- ☐ Inspect and clean air conditioner condensate management system (pan, drain nipple, tubing)
- ☐ Clean air conditioner cabinet

## ADDITIONAL NOTES

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# 915J Continuous Mercury Monitor

## Parts & Consumables List

### Quarter 3

	PART NUMBER	PART NAME
	MT-001	Scrubber 1 (Total Scrubber)
	MT-001 Reload	Reload service of Scrubber 1 (Total Scrubber)
	MT-002D	Scrubber 2 (Disposable Elemental Scrubber)
	MT-010	Probe filter element 2Um Titanium (with 2 viton gaskets MT-081)
	MT-035	Filter Holder/Lid Assembly
	MT-009	Probe Tube, Filter Block Cleanout Kit
	MT-004	Filter Lid O-Rings (set of 2)
	MT-030	Stainless Steel Solenoid Valve (V4)

#### ADDITIONAL NOTES

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# 915J Maintenance Guide

Quarter 3

Last Update: 10/02/2020



# 915J maintenance consists of 3 primary components: head/probe, console, enclosure

Head/probe:



Console:

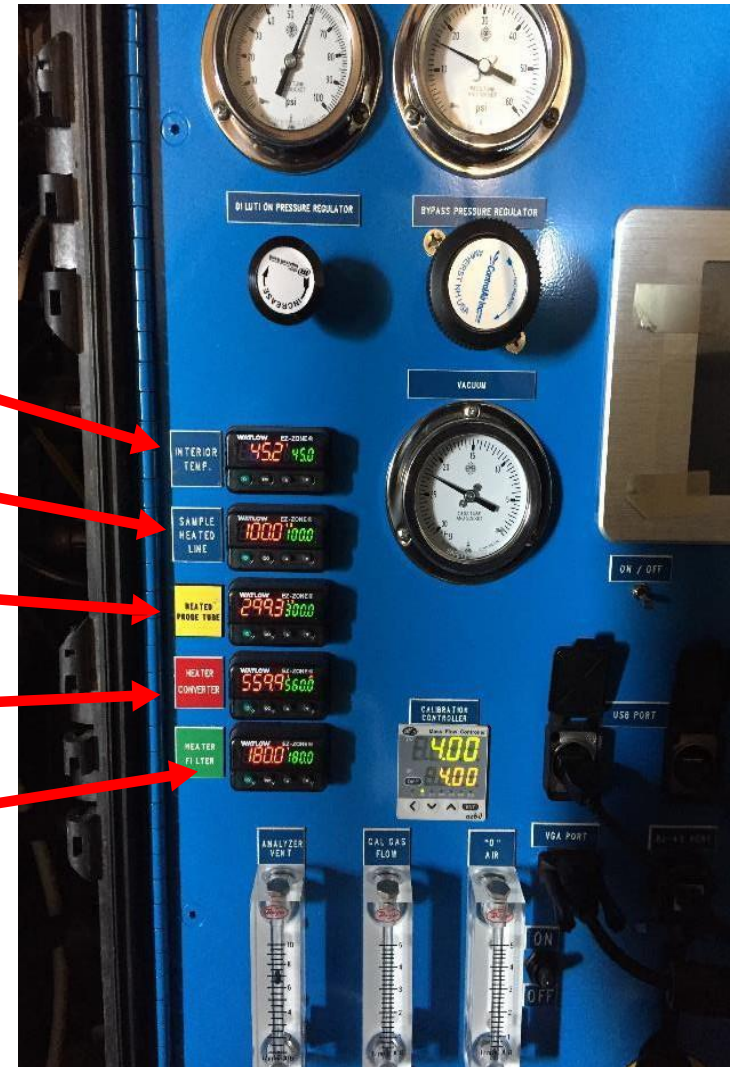


Enclosure:



Begin by confirming proper heating of all temperature controllers:

- Interior Temp:  $45.0 \pm 0.1$
- Sample Heated Line: 100.0
- Heated Probe Tube: 300.0
- Heated Converter: 560.0
- Heated Filter:  $180.0 \pm 20.0$





# Confirm pressures/flow/vacuum on gauges

- Dilution: ~60 psi
- Bypass: ~15 psi
- Vacuum: ~20 inHg
- Analyzer Vent: >6 L/min



# Head Maintenance

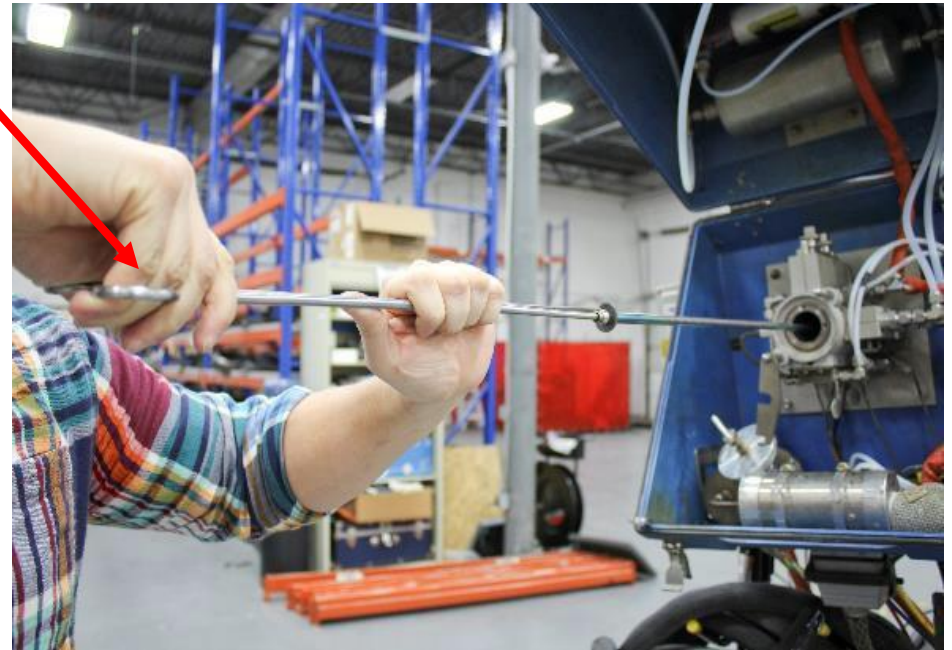
Before beginning work on the head, make sure to pull the Service Button on the bottom center of the console to cut air to the system!



# Head Maintenance

Replace/clean the probe insert/liner (use rifle cleaner or allthread)

Forceps needed to remove liner if one is present

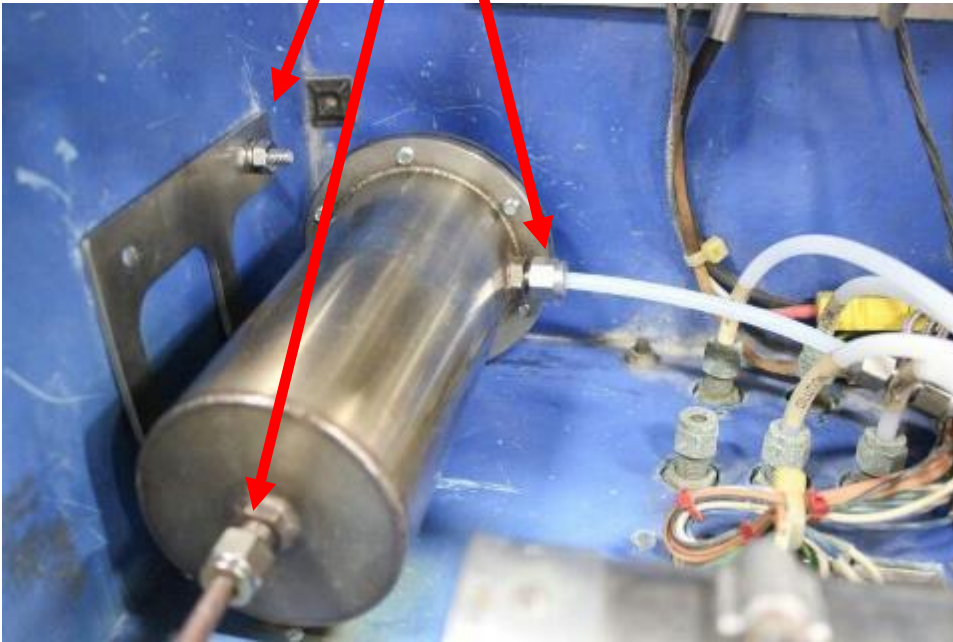




# Head Maintenance

Replace Total Scrubber (MT-001)

Loosen Here:



Replace Elemental Scrubber (MT-002)

Loosen Teflon lines here:

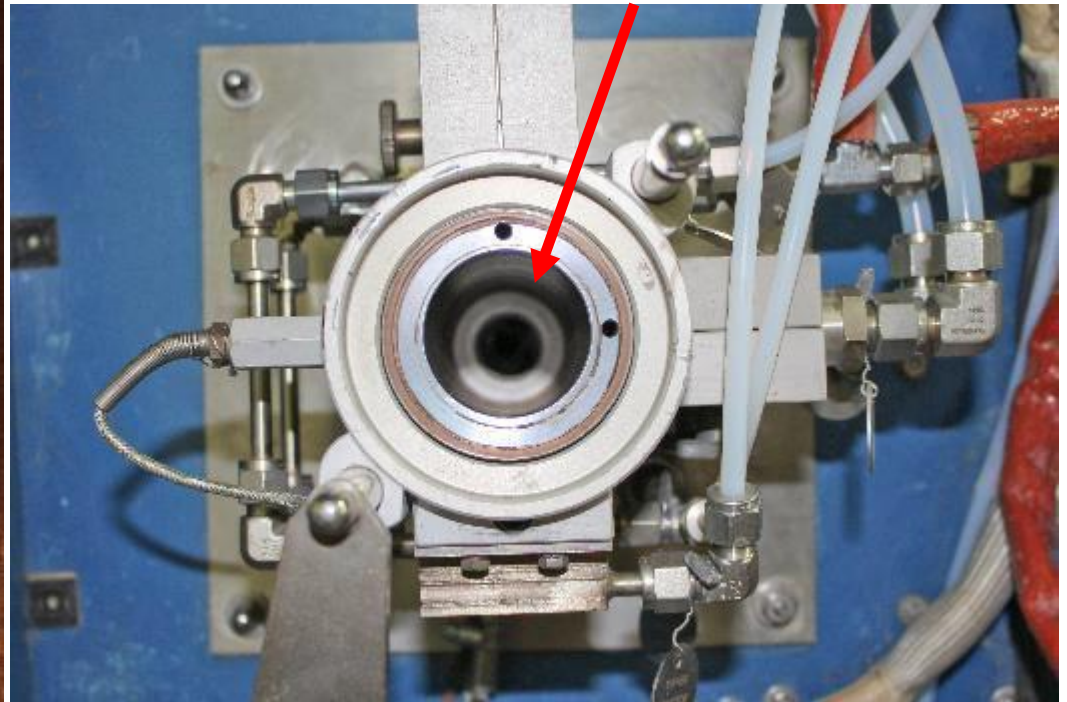


# Head Maintenance

Replace/Clean Titanium Filter (MT-010)

Inspect/Clean Filter Housing

Use cloth to remove any particulate in here



# Head Maintenance

Inspect Viton O-rings (MT-004) in filter lid assembly

Gently Pre-stretch O-rings to ensure proper seating





# Head Maintenance

Inspect Viton O-rings (MT-004) in filter lid assembly (cont...)

Gaskets not stretched and improperly seated:



Gaskets properly stretched and seated:

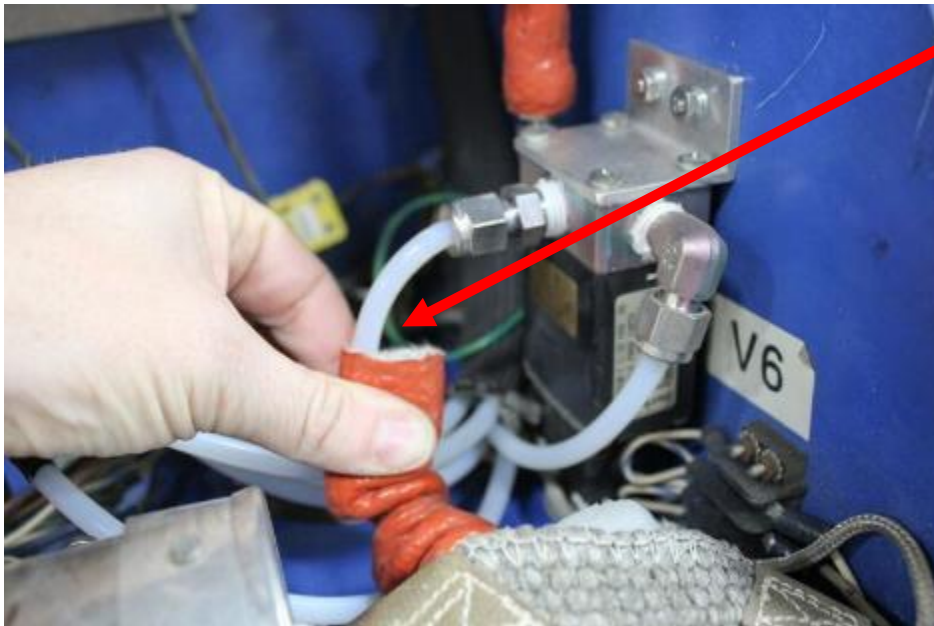


# Head Maintenance

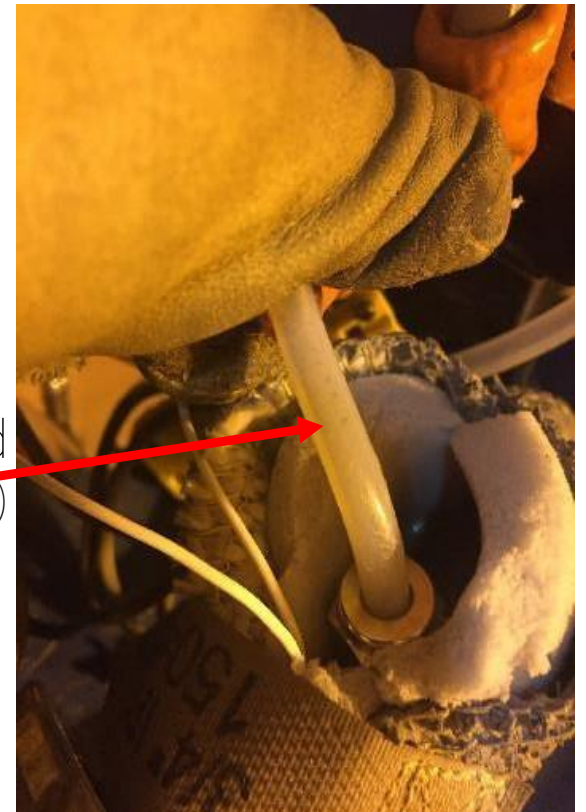
Inspect Teflon lines and replace if needed

(Look for discoloration, moisture, leaking, etc.)

Pay special attention to line from solenoid to total converter:



Needs replaced  
(Moisture, particulate)





# Head Maintenance Complete

Turn air back on by pressing the Service Button back in



## A/C Maintenance

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Confirm proper heating/cooling

- Inspect/clean AC filter
- Inspect and clean AC condensate pan, drain, tubing
- Clean AC cabinet

Replace/Clean AC filter here:

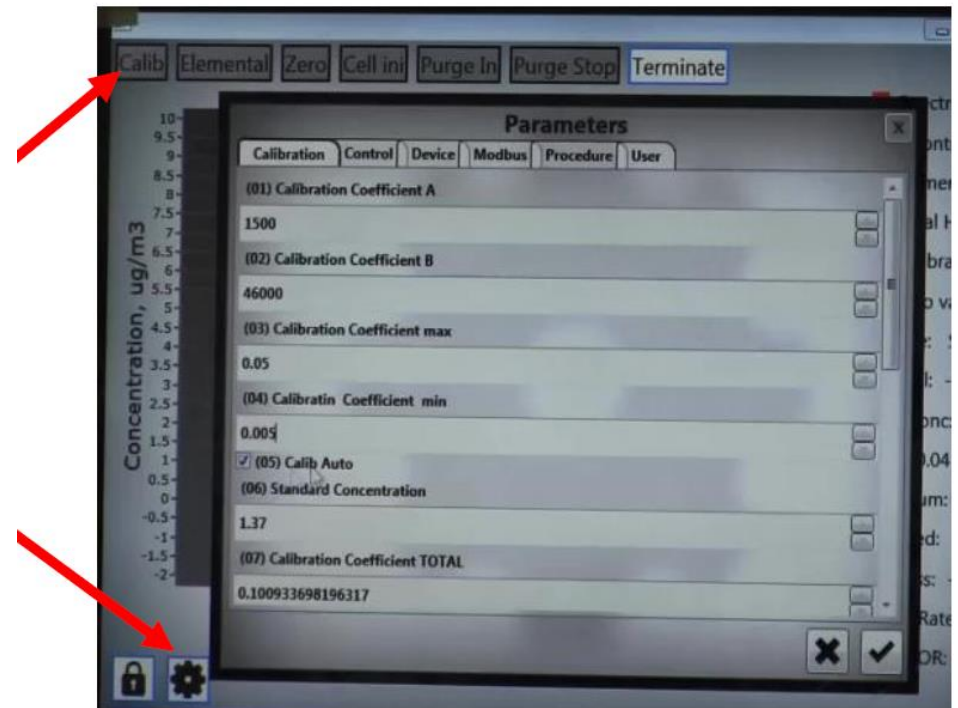


## Completing Maintenance

- After all maintenance, complete, ensure all temperatures and pressures have returned to their expected ranges.
- Be sure to allow the system a minimum of 12 hours to recover from this maintenance.
- Once the system has recovered, it is advisable to run a set of 30B sorbent traps to confirm the readings. A typical run would consist of a 60-minute duration at 500cc.
- Compare the trap data to the 915J Hg total concentration over that time. Adjust calibration coefficient as needed

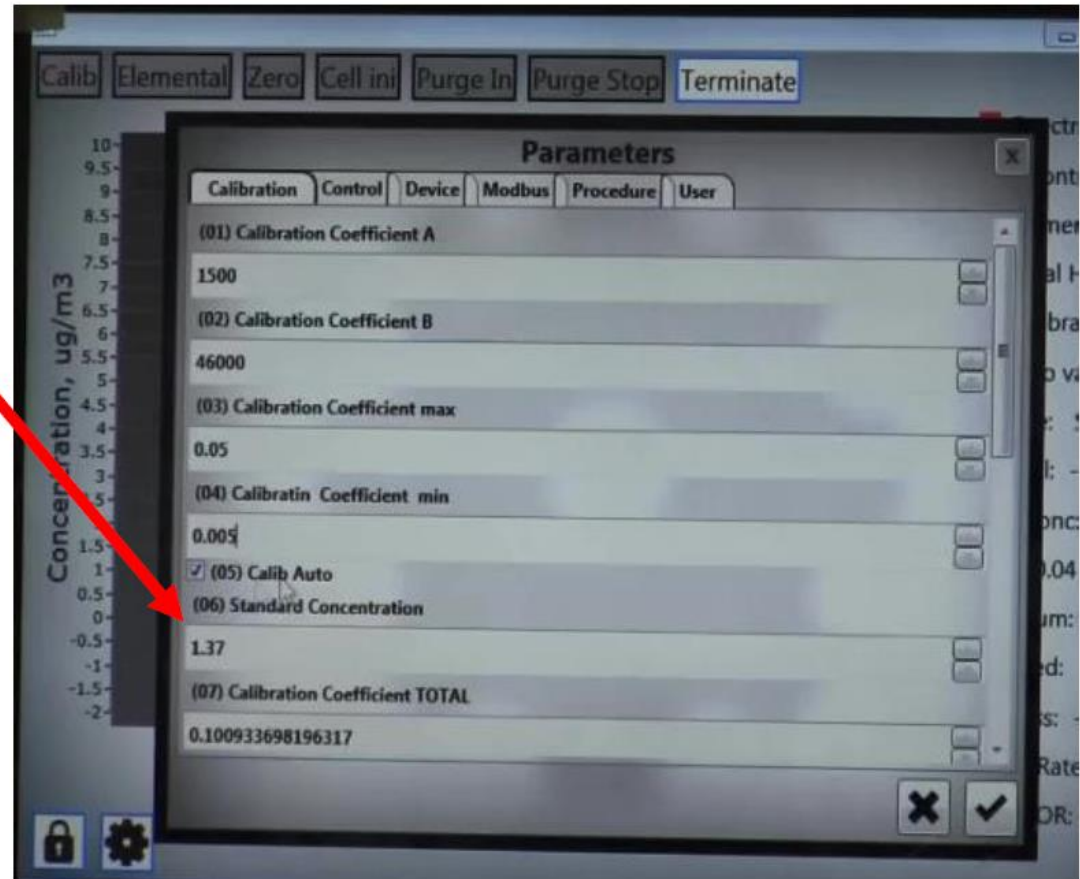
# Completing Maintenance

- If an adjustment is made, the standard concentration will need to be adjusted as well.
  - To do this, click the “calib” button in the top left of the software.
  - Once the calibration has reached a steady average, click the gear icon to open a window.



# Completing Maintenance

- Adjust the Standard Concentration to match the current average in calibration mode.
- Note: this adjustment can only be performed while system is in calibration mode.
- Confirm the calibration coefficient is still at its expected value from before the calibration gas used.





Your maintenance  
is now complete.

