

Eurocom Maintenance Checklist



I. Safety First!

- Turn off the High-Voltage Breaker on the bombardier and Choke!
- Turn off the system and disconnect the power!
- Place a cardboard floor or a clean sheet of paper before the system to protect yourself from possible mercury contamination of the shop floor.

II. Gas Transfer System:

- Remove the gas bottles while making sure the connector nut comes off also.
- Remove Valves (using 9/16 inch wrench) and check the soft seat stem making sure it is not smashed, significantly damaged, or dirty. Reattach and install to optimal tightness.
 - Make the Client aware of how to handle the valves properly!
- Remove the stainless steel pins and remove clogs by pushing brush bristles through the hole.

III. The Manifold

- Check the Pertinax Clamps for cracks.
- Disassemble the Manifold:
 - Remove the spindles and put them to the side.
 - Remove the Gas-Transfer Line Connection
 - Remove the lower Connections
 - Remove the Pertinax Clamps.
- Take out Manifold and clean with Isopropyl Alcohol.
- Reattach the Manifold.

IV. Spindles and O-Rings

- Change the O-Rings on the Spindles (see O-ring list)
 - Use a toothpick to smear a small amount of high vacuum grease around o-rings and outer threads on manifold
 - O-rings should be changed at lease once a year!

- Change Mercury Filters:
 - Mercury Filters should be changed at least once a year. Twice if the main focus of production lies with phosphor tubes.

V. Inside the Cabinet:

- The Cross-Piece:
 - Disassemble the crosspiece.
 - Use Isopropyl Alcohol to clean the crosspiece
 - Clean the hose-bellows
 - When reassembling, please remember to reconnect the grounding cable of the DVR5/VAP5 sensors

VI. Cleaning the Vacuum Pump.

- Disconnect the pump at the back-stream filter.
- Take out pump.
- Open top refill hatch.
- Open draining hatch on lower right and let the oil drain out by gently tilting pump upward.
 - Refill the pump with 1/2 inch of fresh oil.
 - Reconnect the pump to the back-stream filter. Place a blank-off disc on the top part of the back-stream filter. Let pump run for approx. 5 minutes.
 - Re-empty the pump and refill to normal level (slightly below max level). Make sure you don't over-fill!
 - Take-off the blank-off disc and rebuild the system.

F. Turn on the System (but not secondary: bombardier/choke)

- Close main stopcock.
- Pull a vacuum. Let it run for 5-8 minutes.
- Turn black knob on vacuum pump to open position (towards the back-stream filter) to out gas.
 - Under normal operation the arrow should point away from the back-stream filter (towards the right).
 - Let run for 5-8 minutes. See smoke rise from funnel.
 - Turn knob back for normal operation.

VII. The Gauges:

- Close all Spindles
- Hook up our VAP5
- Turn on all gauges and EPS and Turbo.
- Slowly start pulling vacuum.
- Calibrate if necessary.