

Greasing the hybrid turbomolecular pump TMP 5154



The frequency of preventive maintenance is listed in D 10.

Components:

Grease syringe.  F section «Pumping»

Accessing the bearings

Remove the rear cap from the pump (4 allen head screws).

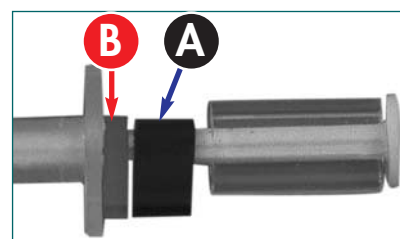
This cap is directly accessible from underneath the leak detector.



Using the grease syringe

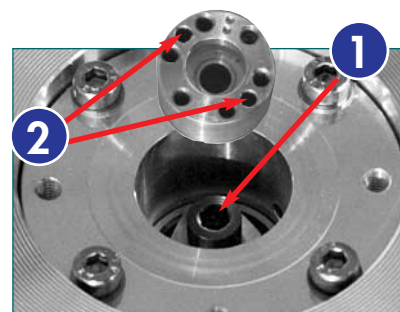
The grease syringe is equipped with a black clip **(A)** and a red clip **(B)**.

These clips are used as stops to control the amount of grease injected into the bearing.



Greasing the front bearing

Remove black clip **(A)**.
Push the grease syringe in through the screw hole **(1)** until it comes up against a stop. Inject grease pushing in the plunger until it stops at clip **B**.



Greasing the rear bearing

Remove the red clip **B** and distribute the grease between the injection points (smooth holes directly opposite each other: 2).

Greasing the hybrid turbomolecular pump TMP 5154



Running in the pump after relubrication

After relubricating the TMP 5154, the grease must be distributed in the bearings ("Running in")

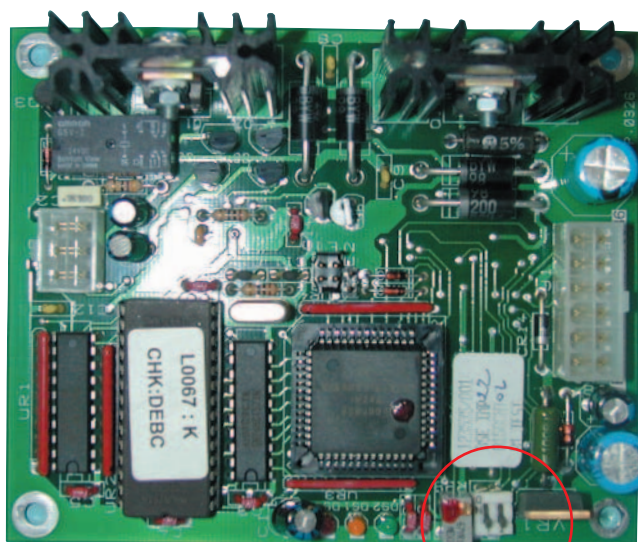
This is performed by limiting the speed of the pump for a short period.

For this, on the P0326 converter board, set the running in switches; switch 1 to ON (detector off).

Start up the detector and let it operate for approximately 10 minutes in this position.

After 10 minutes, **switch off the detector** and reset switch 1 to OFF.

Start the detector up again and check that the TMP 5154 reaches its synchronization speed correctly. If this time is too long, repeat the running in procedure a second time.



P0326 board

