


VP500 Vacuum Pump

Pinch Point Verification/Adjustment

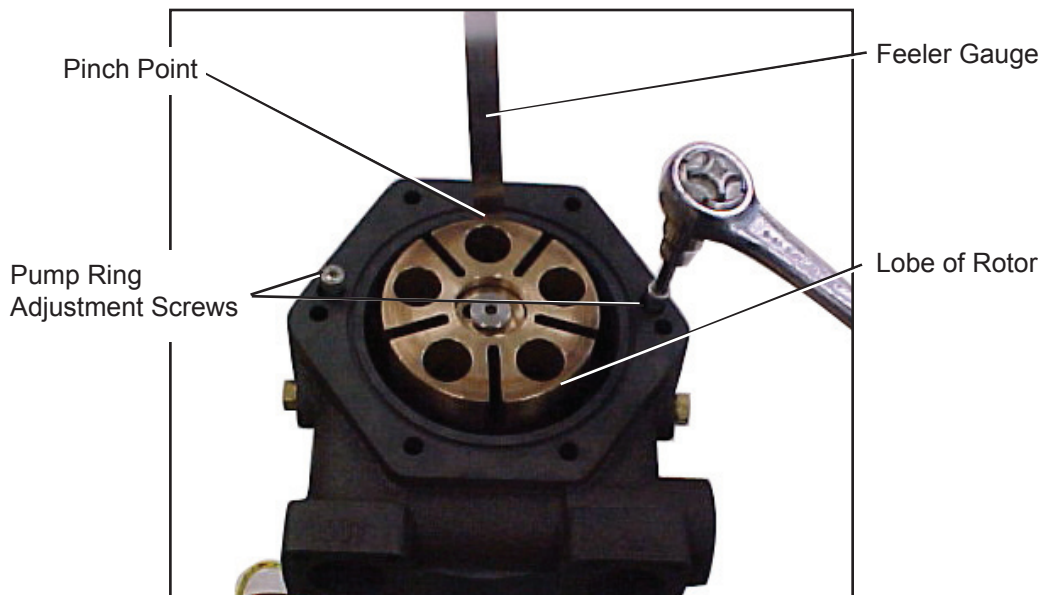
Caution  **Disconnect power before beginning service. Follow all local regulations.**

1. The work area must be clean and have sufficient lighting.
2. Disconnect the vapor piping connected to the IN and OUT ports of the VP500.
3. Remove the VP500 cover screws and carefully remove the cover.

Caution  **Use a spill cloth when removing the cover, as there may be some gasoline inside the pump cavity.**

4. Verify the current state of the pinch point tolerance.
5. If the 0.003" (0.07mm) feeler gauge passes freely through the pinch point, and a 0.006" (0.15mm) feeler gauge does not pass at least one lobe of the rotor go to step 12, otherwise proceed to step 6.
6. Adjust the pump ring by first loosening the two adjustment screws on the pump ring.
7. Then place a 0.004" (0.1mm) feeler gauge between the pump ring and the rotor at the pinch point.

8. Shift the pump ring snug to the feeler gauge and a lobe of the rotor.
9. Tighten the pump ring adjustment screws to 60 inch-pounds (6.8 N-m) of torque.
10. Verify the gap adjustment with the feeler gauges.
11. If the 0.003" (0.07mm) feeler gauge passes freely through the pinch point, and a 0.006" (0.15mm) feeler gauge does not pass at least one lobe of the rotor, go to step 12, otherwise return to step 6 for readjustment.
12. Position the VP500 cover to the pump body.
13. Insert the cover screws into the cover and hand tighten.
14. Tighten the cover screws in opposing order (star pattern). Tighten each screw to 65 inch-pounds (6.8 N-m) of torque.
15. Re-connect the vapor piping to the IN and OUT ports of the VP500.
16. Test for normal operation. (See P/N 405116001, VP500 Installation Instructions for details).



VP500 Pinch Point Adjustment



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