



VP500 Series

Cabinet-Mounted Vacuum Source

Vane/Rotor Service & Replacement Guide

Caution  **Disconnect power before beginning service.**

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 pump 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. Turn the rotor assembly by hand until the shaft key is at the 12 o'clock position.
5. Remove the rotor, vanes and shaft key from the pump housing.

Note: The rotor/shaft may require a round key (Figure 1) or a square shaft key (figure 2).

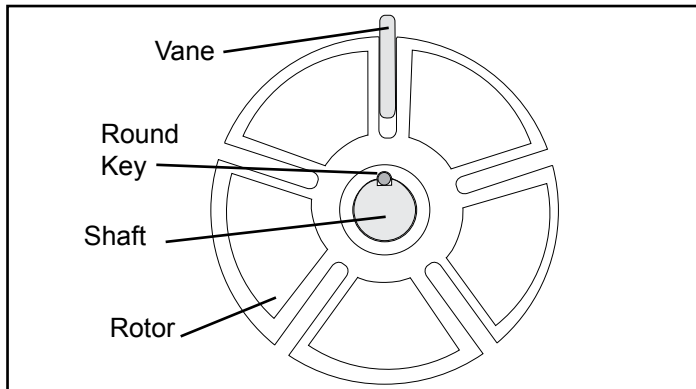


Figure 1: Vane/Rotor with Round Key

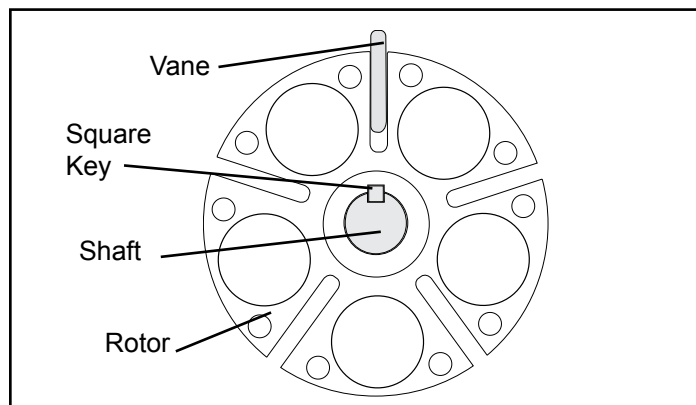


Figure 2: Vane/Rotor with Square Key

Note: Place your hand or a container under the rotor while removing. Do not use any sharp objects that would scratch the pump cavity, shaft, rotor or vanes.

6. Rotate the shaft by hand. If the shaft does not rotate freely, the entire pump needs replacement.
7. If the rotor and vanes are cracked, chipped, excessively worn or dirty, the rotor and vanes should be replaced because cleaning alone will not remedy the situation. (PN# VP500VR-3)
8. If there is no visible damage, use a lint-free cloth with isopropyl alcohol to clean the rotor and vanes.
9. Using a lint-free cloth with isopropyl alcohol, thoroughly clean the inside of the pump ring, the rear of the pump cavity, the rotor shaft and the inside of the cover.
10. Install the key on the rotor shaft.
11. Carefully install the cleaned original or new rotor onto the shaft followed by the cleaned original or new vanes into the rotor.
12. Reattach the cover to the pump body.
13. Re-connect the vapor piping to the **IN** and **OUT** ports of the pump.
14. Test for normal operation. (See VP500 Maintenance and Installation Instructions) or refer to these CARB Executive Orders.

- G-70-165 exhibit 4
- G-70-186 exhibit 4
- G-70-187 exhibit 4.



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