



Instructions: How To Change Rotation on V10/V20 Vane Pumps

Rotation is determined by looking at the V10/V20 vane pump from the shaft end and observing the rotation arrow on the housing. When changing the rotation, you want to make sure that the pump is secure before you start.

1. Remove the four bolts on the rear of the unit. As you remove the bolts, the cover will start to move away from the unit, don't worry this is normal. There is a spring underneath the cover. The spring is not under high pressure, it's just there to push down the pressure plate.
2. Remove the cover, spring and pressure plate.
3. Remove the cam ring. Watch out for the direction arrow at the bottom of the cam ring. This will let you know the rotation. If the arrow is pointing to the right it is clockwise and left is counterclockwise.
4. Grab the cam ring and pull straight up. If the pins come off with the cam ring, do not panic. They are just a slip fit and they can be easily reinstalled. You will want to leave the rotor and vanes in place.
5. Flip the cam ring over so the arrow is now facing the opposite direction. Slide it back down the pins. If it is a little snug that is okay, just make sure it is seated all the way down and mates with the body.
6. Now that you have the cam ring back on the body, just set the pressure plate and spring back onto the cam ring.
7. Set the cover back onto the pump. Drop the bolts back into place. Push the cover down with your hand so that it sits against the cam ring. This will keep the o-ring from getting pinched. You will want to tighten the bolts.



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