



CARE AND USE OF 96 MAGNETIC BEAD BUBBLE PADDLE STIRRER

1. Place the VP 769 motor assembly on to your robot deck and attach it so the notches in the bubble paddles and the depressions in the reservoir are aligned to the pipette tips.
2. The VP 758-96 Bubble Paddle Reservoir can be cleaned with detergents and rinsed with distilled water and or ethanol/isopropanol. It can also be sterilized by autoclaving if necessary. Autoclaving operations should be done after the reservoir is detached from the aluminum base plate (remove the 6 screws that hold the reservoir to the base plate). **Do not remove the drive shaft from the Bal Seal.** Although it is possible to pull the drive shaft out of the bearings and out of the Bal Seal we do not recommend that you do this as you increase the risk of damaging the Bal Seal.
3. Raise the VP 769 Motor unit up on it's hinge and attach the VP 758-96 Reservoir to the VP 769 motor unit by placing the 2 alignment holes on the bottom of the aluminum base plate on the 2 dowel pins on the VP 769 motor unit. Lower the VP 769 Motor unit on the hinge until the gears on the motor unit engage the gears on the 4 sealed bearing shafts. An adjustable supporting post maybe used to adjust the engagement of the gears.
4. To remove the VP 758-96 Reservoir from the VP 769 motor unit, lift up on the front of the Motor unit until it is upright then lift the reservoir out.
5. **Do not operate dry as this will wear out the seals. Always operate with liquid.** Operate at speeds and liquid levels that do not aerosolize the liquid. At lower liquid levels you will want to use slower speeds. To lengthen the life of the seal, operate at the lowest possible speed that keeps your particles in suspension. Also operate only when necessary as this will prolong the life of the seal. The maximum speed is 1,000 RPM and is set at the factory.
6. The reservoir can also be disinfected by soaking in a 10% bleach solution for 5 minutes followed by sterile water rinses and an additional rinse in alcohol.
7. **Do not use the speed controller to stop the stirrer; use the on/off switch.**
8. Replacement Bal Seal and bearings for the VP 758-96 are available in the rare event the Bal Seal begins to leak. To remove sealed bearing unit from the reservoir, first remove 5 of the six screws and swing the aluminum base out of the way to reveal the 4 retaining screws at the bottom of the reservoir. Remove each of those screws and pull out the 4 sealed bearing units. Each is secured in the reservoir by a friction fit from two O rings. The set screw at the top of the sealed bearing unit should **NOT** be removed.

9. Clean the bearing hole and apply a thin coat of silicone grease. Hand press a new sealed bearing into the reservoir. Line up the slot on the drive shaft with the end of the bubble paddle. Insert and tighten screw at bottom of reservoir to lock the sealed bearing unit in place.
10. Send the leaky sealed bearing unit to V&P for repair and replacement.