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INSTRUCTIONS

MOTION PRO SYNC PRO™ FLUID REFILL INSTRUCTIONS 08-0581

Thank you for purchasing the Motion Pro SyncPro™ Replacement Fluid. In the event excess vacuum was placed on the SyncPro™, fluid from all four chambers may be drained from the reservoir. The following steps will guide you through the procedure for replacing fluid that was lost during calibration or synchronization.

NOTE: If you experience fluid loss from only one chamber, please contact Motion Pro to determine if there is a problem with your SyncPro™ before refilling it.

Here are the items needed to complete the fluid refill process:

- (1) #1 Phillips screwdriver
- (2) Small flat blade screwdriver
- (3) Access to running water
- (4) Paper towel or clean rag
- (5) Compressed air



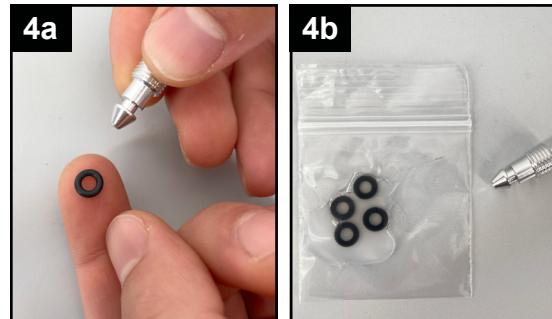
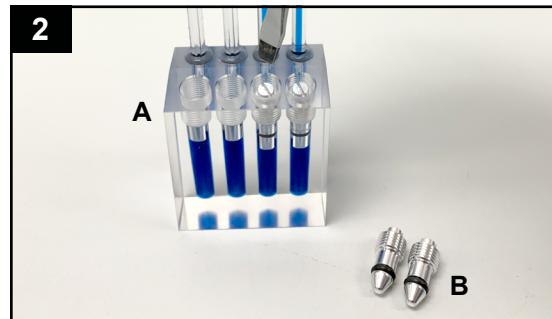
SyncPro™ Fluid Refill

1. Place the SyncPro™ face down on a clean non-scratch surface with ample working space. It is important to keep your work area clean so you don't introduce debris into the unit during reassembly. Turn the four calibration screws clockwise until they stop turning. Remove the rubber feet and eleven screws that hold the two-piece housing together. Separate the housing.

2. Remove the reservoir with tubes still in place (**A**). Remove the four calibration screws (**B**) and place them aside in a clean area.

3. **Note:** Do not remove plastic tubes from reservoir during this process. Dispose of the existing fluid in the reservoir. **Note:** This is a petroleum based mineral oil and should be disposed with your other oils in accordance with the laws of your locality. Flush any remaining fluid from the assembly under running water until the rinse water runs clear. Soapy water may be used to help rinse. Wipe off the outside of the reservoir and tubes with a clean paper towel and use compressed air to gently blow any remaining water from the four chambers. You will need to force air down through the tops of the tubes to blow out any remaining water. Repeat this process until all of the water is removed. A very small amount of residual moisture is acceptable if it can't be completely removed.

4. Remove the o-rings from the four aluminum pistons as shown in **Fig. 4a**, taking care not to scratch the o-ring gland. Clean the pistons thoroughly using a clean paper towel. Install the new greased o-rings supplied in the rebuild kit as shown in **Fig. 4b**.



MOTION PRO SYNC PRO™ FLUID REFILL INSTRUCTIONS CONTINUED

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SyncPro™ Fluid Refill Instructions continued...

5. Before going to the next step, make sure that the 4 tubes and o-rings are still fully seated in the reservoir. If an o-ring pops up, simply re-seat the o-ring by pressing it back into place with a small flat-blade screwdriver. When the tubes are properly seated and in place all of the notches on the tubes will line up.

Fig. 5a - O-rings seated properly

Fig. 5b - O-ring popped out of place

Fig. 5c - Re-seating o-ring with small flat blade screwdriver

6. Install the vacuum caps about halfway down onto the tubes to create an air seal.

7. To refill your SyncPro™, hold the reservoir upright so that the chambers are vertical. Insert the tip of the refill bottle all the way in past the threads of the first chamber and place 28 drops of SyncPro™ fluid into the chamber. **This should result in a fluid level measurement of approximately 20 mm down from the top front edge of the reservoir.**

Note: It is important to keep the fluid off the threads during this process.

Fill each of the remaining chambers using the same method until the fluid level is equal to the first chamber.

Note: Filling of remaining chambers may take more or less than the 28 drops to be equal in height to the first chamber.

When finished filling, perform a visual check to make sure the fluid levels in the four chambers are the same height. If the fluid levels are not the same height, add a drop of fluid to the chambers that are low until they are all approximately the same. If you overfill a chamber or get fluid on the threads you can use a lint-free cloth to wick up or wipe away any excess fluid. **Important:** If there is fluid in the threads, make sure to wipe them dry before installing the piston.

8. Double check the calibration screws and o-rings to make sure they are free of any dust or debris and then gently thread them into the reservoir until they bottom out. They do not need to be tight.

9. Place the reservoir in the housing, and check one last time that the o-rings and tubes are still fully seated before you put the housing back together. Starting with the innermost screws and working outward, gently hand-tighten each screw until the housing is closed around the entire perimeter. Replace the rubber feet. Your SyncPro™ is now ready for use. Remember to check and set your engine idle to the proper RPM before hooking up the SyncPro™ for its next use.

