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# Instructions

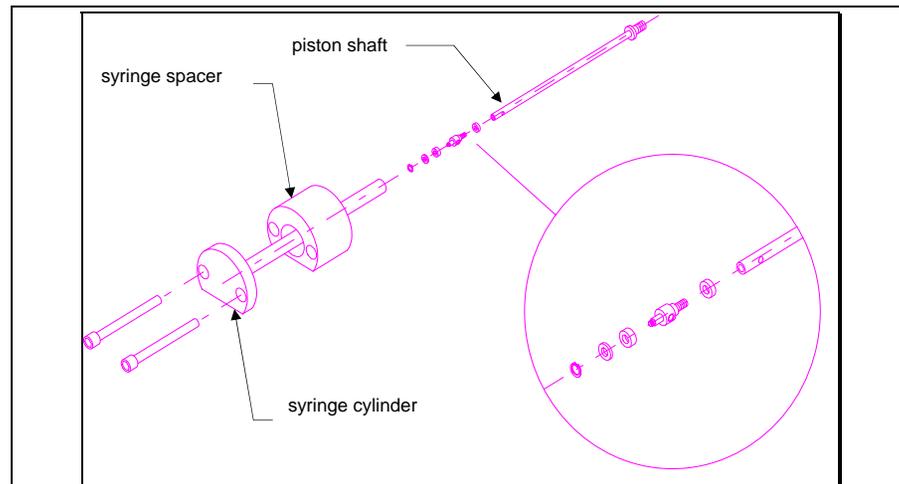
## Syringe Piston Seals

### To remove the syringe and piston:

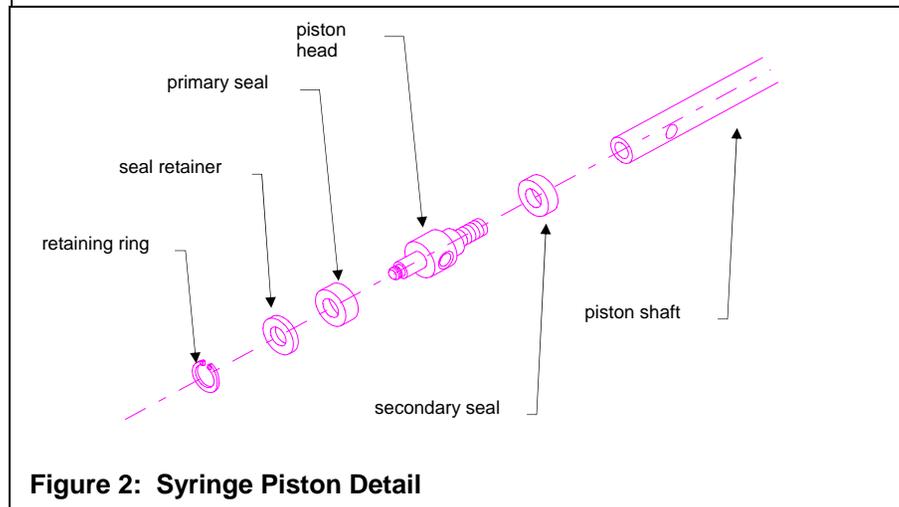
1. Run syringe piston to the fully forward position by purging the pump (from the Main Menu select softkey "D", from screen D select softkey "B", from screen D1 select softkey "B", from screen D1.2 position cursor on PURGE RATE field, enter a purge rate; position cursor on # OF CYCLES field, enter 0. Press ENTER twice to position cursor in PURGE RATE field and press RUN.).
2. Loosen the two hexagonal bolts using a 5/32 hex key.
3. Remove the syringe body and spacer to expose the piston. You may wish to hold an absorbent tissue under the syringe body and spacer when you remove them.
1. Using a 5/16" wrench (for 10mL syringe) or a 1/16" dowel (for 2mL syringe) on the piston shaft, unscrew the piston from the syringe assembly.

### To replace the piston seals:

1. Remove the retaining ring from the piston head by using a small screwdriver to pry the ring open.
2. Remove the seal retainer with your fingers.
3. Remove the primary piston seal with your fingers.
4. Place the new primary piston seal (the thicker of the two seals) on the small shaft of the piston head (with spring side of seal facing toward the seal retainer).
5. Place seal retainer over the primary piston seal.
6. Re-install retaining ring, using a small screwdriver to pry the ring open and snap it around the piston head shaft.
7. Remove the piston head assembly from the piston shaft. The piston head assembly is unscrewed from the piston shaft by using a 1/16" dowel through the hole in the piston head assembly and stabilizing the piston shaft with a 1/16" dowel (for the 2mL syringe) or a 5/16" wrench (for the 10mL syringe).
8. Remove the secondary piston seal with your fingers from the piston head assembly.
9. Install a new secondary piston seal (the thinner of the two seals), with the spring side of seal facing toward the piston shaft.
10. Reverse step 7 to re-install the piston head assembly on the piston shaft.
11. Screw the piston shaft back into the syringe assembly.
12. Reinstall the syringe cylinder and syringe spacer.
13. Prime and Purge the pump.



**Figure 1: Syringe Cylinder and Piston**



**Figure 2: Syringe Piston Detail**

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Piston Seal Kit for 2 mL syringe. Includes GF PTFE primary and secondary piston seals.  
 Piston Seal Kit for 10 mL syringe. Includes both primary and secondary piston seals.

If there is anything we can do to help you with these instructions, or, if you have comments or suggestions, please contact us at:  
**(800)969-3533**

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Piston Seal Kit for 10 mL syringe. Includes GF PTFE primary and secondary piston seals.