

# Syringe Guide Assemblies

Congratulations! You have purchased the finest quality precision fluid management device available today. We combine top quality materials with skilled workmanship, ensuring the highest possible performance level of every precision fluid device we manufacture. With proper care and handling, Hamilton Syringe Guides (P/N 14806 and P/N 14906) will provide unsurpassed performance in precision fluid handling year after year.

**Syringes and needles manufactured by Hamilton Company are intended for scientific research and laboratory use only and are not intended for human *in vivo* use.**

Hamilton Syringe Guide assemblies stabilize the fine plunger wires of some smaller volume syringes. It incorporates two stabilizing rods mounted in an upper nylon guide that slide freely through a lower nylon guide. An adjustable stop collar is located on one of the stabilizing rods to prevent the plunger from being totally removed accidentally from the syringe. You can easily relocate the stop assembly to prevent the plunger from bottoming against the needle. The nylon upper guide provides a large surface area on which to place the thumb, while the lower nylon guide is supported between the index and middle fingers. The guide adds support and provides a larger surface area for holding an otherwise small and fragile plunger.

**Note: The guide will not prevent plunger bending in improperly maintained syringes.**

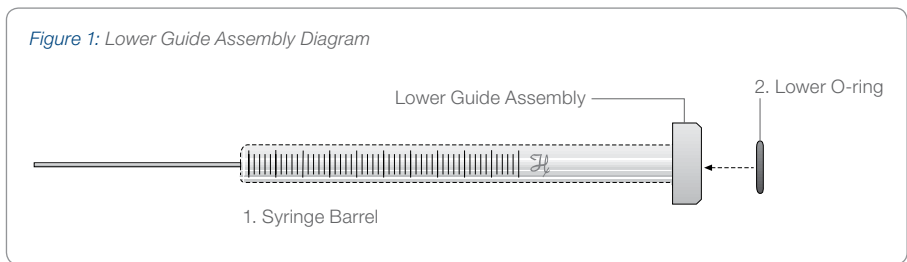
## Installing Guide Assemblies

The Hamilton Guide (P/N 14806) can be installed on any series 701 Hamilton Microliter™ syringe model or any series 1701 Gastight® syringe model.

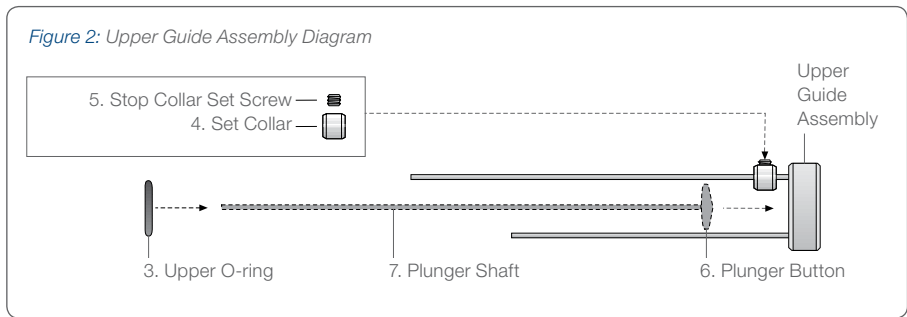
The Hamilton Guide (P/N 14906) can be installed on series 702 through 750 Microliter™ syringes, 7000 Series Modified Microliter™ syringes, or series 1702 through 1750 Gastight syringes.

The installation procedure for Hamilton guides is as follows. Numbers in parentheses refer to part numbers in Figures 1–3.

1. Separate the two halves of the guide assembly.
2. With the syringe placed on a clean dust-free surface, remove the plunger.
3. Place the syringe barrel (1) into the lower guide, with the syringe flange in the groove of the lower guide. Install the lower O-ring (2) into the groove using a small screwdriver (Figure 1).



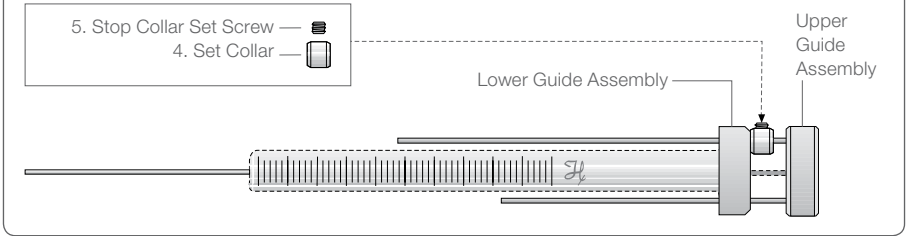
4. Place the plunger button (6) into the upper guide assembly (Figure 2).



5. Slip the upper O-ring (3) over the plunger shaft (7), and position it into the groove in the upper guide to secure the plunger (Figure 2). For 7000 series syringes, the upper O-ring can be slipped over the plunger button without the need to remove the plunger from the syringe barrel.
6. Slide the stop collar (4) to the top of the longest rod on the upper guide assembly and temporarily tighten the stop collar set screw (5) with the Allen wrench.



Figure 3: Final Assembly of the Syringe Guide



7. Join the upper and lower halves of the guide, being careful to not bend the plunger (Figure 3).
8. Bring the upper and lower halves of the guide together gently until the plunger tip rests against the base of the needle.
9. Loosen the stop collar set screw (5) and set the stop collar (4) against the lower guide assembly. Tighten the set screw. This setting of the stop collar will prevent the plunger from bottoming against the needle upon rapid injection (Figure 3).
10. Your syringe is now ready for use.

**Note: You have the option of installing the stop collar to prevent the plunger from disengaging from the syringe during normal operation. If you choose this option, place the stop collar on the very end of the rod after assembling the two halves of the guide, and tighten the set screw.**

## Replacement Parts

Description	Part Number
Guide Assembly 701/1701	14806
Guide Assembly 702-750 / 1702-1705	14906
HV/HVP Handle Allen Wrench	2389-01
Stop Collar	16444
Stop Collar Set Screws	16435
Upper Guide O-Ring <sup>1</sup>	16101
Lower Guide O-Ring <sup>1</sup>	16133
Upper Guide O-Ring <sup>2</sup>	16104
Lower Guide O-Ring <sup>2</sup>	16105

<sup>1</sup> These parts are for 14806 assembly.

<sup>2</sup> These parts are for 14906 assembly.

## WARRANTY STATEMENT

Hamilton Company unconditionally guarantees its products to be free of defects in materials and workmanship. Any product which fails due to such a defect will be repaired or replaced at our discretion without cost, provided the device is returned on a Return Materials Authorization (RMA). It is the responsibility of the purchaser to determine the suitability of application and material compatibility of the products based on the published specifications of the products.

## RETURN OF GOODS

Hamilton Company's return and repair policy is written to protect its employees from potentially hazardous materials (e.g. serum, radioactive materials, carcinogenic chemicals, etc.) or any substance that may cause them partial or permanent disability during the inspection or repair process. In returning a product, the customer acknowledges that the product is free from any hazardous materials. Furthermore, the customer assumes responsibility should the returned product be determined to be hazardous.

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