

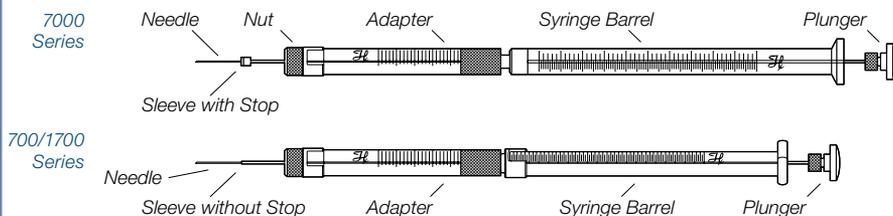
## Neuros™ Syringe Instruction Sheet

Congratulations! You have purchased the Neuros™ Syringe from Hamilton. We combine the highest quality materials with skilled craftsmanship, ensuring the highest possible performance level of every precision fluid device we manufacture. With proper care and handling, Neuros syringes will provide years of use.

**The Neuros syringe manufactured by Hamilton Company is intended for scientific research and laboratory use only and is not intended for human *in vivo* use.**

**Important!** No replacement parts are available for the 7000 series Neuros syringes (P/N 65457-01, 65457-02, 65458-01, 65458-02, 65459-01, 65459-02). Care must be taken to ensure the Needle/Plunger does not become bent. Replacement needles are available for the 700/1700 Series syringes but care should be taken to avoid needle bending whenever possible.

Figure 1. Hamilton Neuros Syringe Parts



\* The plunger on a 7000 Series syringe is a small tungsten wire that runs to the tip of the needle.

The needle and plunger is a match set and cannot be replaced if damaged.

\*\* Do not pull the plunger completely out of the 7000 series syringe as this will expose the small tungsten plunger wire and will most likely result in irreparable damage.

### Change or Adjust the Sleeve

1. Select the appropriate sleeve for your application. The sleeve with stop is used for applications that require a blind stop. The sleeve without stop is used when working with a stereotaxic holder. See Figure 1 for more details.
2. Loosen the nut until the sleeve can be slid along the needle.
3. If you are changing the sleeve, remove the current sleeve and gently install the new sleeve with the unpainted end sliding onto the needle first.
4. To adjust the exposed length, slide the sleeve until the start of the black paint on the sleeve is aligned with the desired graduation on the adapter. The graduations indicate in millimeters how much of the needle is exposed.
5. Gently tighten the nut to hold the sleeve in place.
6. For part numbers 65457-02, 65458-02, and 65459-02 rotate the plunger until the tick mark is in the middle of the "H" on the silkscreen. This will ensure proper alignment of the needle and plunger.

### Neuros Syringe Cleaning Instructions

After performing an injection it is critical to properly clean the Neuros syringe. For most biological samples Hamilton recommends a detergent based Cleaning Solution Concentrate (P/N 18311). Other cleaners may be acceptable but the key is to match the cleaner to the type of sample used. For example, do not use an organic solvent as the primary rinse for a biological solution as the proteins could form an unwanted solid inside the syringe. Following are the suggested rinse steps.



## Neuros Syringe Cleaning Instructions (Cont.)

1. Rinse the syringe with 5–10 syringe volumes of diluted Cleaning Solution Concentrate to remove the sample.
2. Follow the initial rinse with 5–10 syringe volumes of deionized water to remove the cleaning concentrate.
3. Perform a final rinse with acetone or an alcohol. This will help to disinfect and dry the syringe internally and prepare it for the next use.

## Replacement Parts

Description	Hamilton Part No.	Point Style
700/1700 series Neuros adapter kit*	65460-01	3
	65460-04	4
33 gauge Neuros replacement needles 6/pack compatible with 2.5–100 $\mu$ L removable needle syringes	65461-01	3
	65461-02	4
Hamilton Cleaning Solution Concentrate	18311	N/A

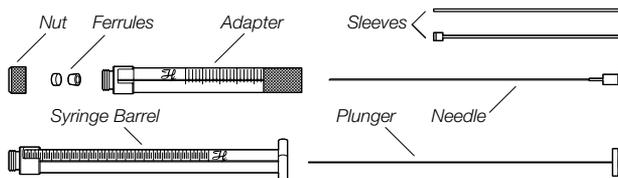
\* This kit includes the adapter, two sleeves, and a six pack of 33 gauge needles.

Given the unique and delicate nature of Neuros 7000 series syringes, there are no replacement parts. The syringes are shipped with the sleeve completely covering the needle so the needle is not damaged in transit. It is highly recommended that the needle be stored in this manner.

**Note: For customers located in the U.S. and Canada a repair service is offered for the 7000 series Neuros Syringes. If you are outside these territories contact Hamilton for more details.**

## Assembly Diagram for 700/1700 Series Neuros Adapter

Figure 2. Exploded view of the Hamilton RN syringe with Neuros adapter



## Warranty Statement

Hamilton Company unconditionally guarantees its products to be free of defects in materials and workmanship. Any product that 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 product based on the published specifications of the product.

## 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 prove to be hazardous.

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