

# Appendix B

## Setting-Up the Syringe Pump

This appendix describes how to set-up the syringe pump, which is used for infusing the standard solution during the tuning process.



**Warning:** To avoid electric shock, clip the ground cable, attached beneath the lower right of the front panel, onto the syringe needle.

1. Clip the ground cable (with a plug-in clip), attached beneath the lower right of the front panel, onto the syringe needle.
2. Mount the syringe onto the pump (Figure B-1).

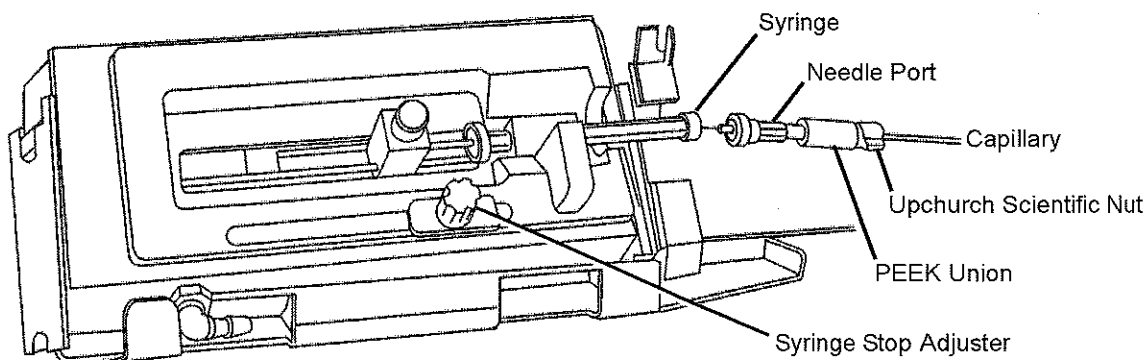


Figure B-1 Syringe Pump



**Caution:** The syringe pump has a positive syringe stop to prevent certain syringe types from breaking. Nevertheless, as added protection against syringe breakage, setting the syringe stop adjuster is recommended. This prevents the syringe plunger from travelling its full stroke inside the syringe barrel, thereby reducing the likelihood of breakage.

3. Set the syringe stop and syringe stop adjuster appropriately.
4. Screw the Rheodyne 9013 needle port fitting into the PEEK union and tighten it so that it will not leak.



**Caution:** *The sample capillary is fragile. Take great care to avoid damaging it while performing this procedure.*

5. Use a ceramic silica cutter to make a square, even cut on both ends of the sample capillary (supplied in the ESI probe installation kit) before installing. Examine new cuts for squareness using an eye glass. When cutting the capillary, allow enough length to form loops at angles and corners.
6. Feed the capillary through the hole at the top of the molding, the capillary will emerge from a hole at the top right side of the syringe pump area (see Figure 1-3 on page 5).
7. Connect the capillary to the PEEK union, using an Upchurch<sup>®</sup> Scientific nut, ferrule, and PTFE tubing.
8. Before using the syringe pump, ensure that the type of syringe used is selected in the MassLynx software (see Appendix C, The MassLynx Tune Window).