

DRUMMOND #390 MICRODISPENSER

Thank you . . . for purchasing the new #390 Drummond Microdispenser. This instruction sheet will help you operate and maintain your microdispenser. Sample deliveries with a $\pm 1\%$ full scale volumetric tolerance are assured through the use of Drummond Custom Molded Precision Plastic Bores.

CATALOG NO.	OVERALL CAPACITY	REPLACEMENT BORE CAT. NO.	PLUNGER TIP
3-000-390	1000 μ l	3-000-590-G	Plastic
3-000-390X	1000 μ l	3-000-590-G	Plastic (Includes Repeat Kit & Spacers)

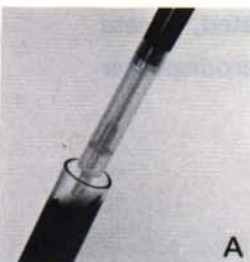
THE MICRODISPENSER PLUNGER WILL SLIDE FREELY IN THE BORE ONCE IT IS WET.

A SAMPLE COLLECTION

Depress the plunger fully, immerse the tip into the solution and release the plunger slowly. The exterior of the bore should be wiped free of any excess sample with a wiper, being careful to avoid drawing any sample from the end of the bore.

B DELIVERY

Expel the sample by depressing the plunger completely. Touch the tip of the bore to the side of the receiving vessel or swirl the tip in diluent to remove entire sample.



C REPEAT DELIVERY (Model 390X)

Utilizing components of the "Repeat-kit" attach valve, tubing, sinker, etc. to Microdispenser in logical order. After initial filling each stroke will deliver 1 ML.

D ADJUSTING VOLUME (390X)

Spacers are provided to adjust the volume delivered to 100,250,500 or 800 μ l. They can be individually fitted by unscrewing the plunger cap and sliding the sleeve over the Plunger Rod. Each sleeve is labeled to indicate set volume.

Do not use more than one sleeve at one time. Sleeves are available for volumes other than listed above on special order. See Fig. 1

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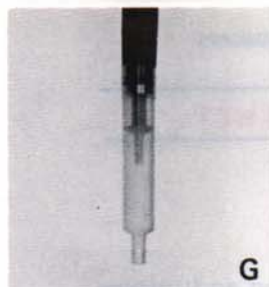
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- E** A phenomenon common to dispensing pipets is a small extra drop occurring as the pipet refills. This can be avoided by restricting the inlet hose flow rate with the Microvalve provided in the Repeat Kit.

F **STORAGE**

For best results, store your microdispenser with a new unused bore, or without a bore.



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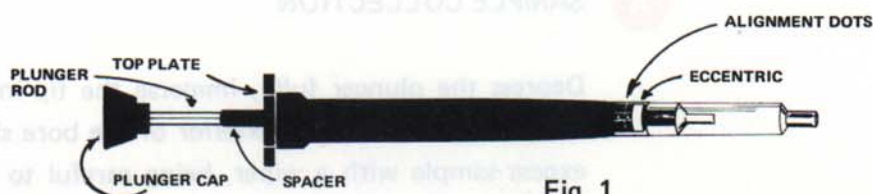


Fig. 1

G **REPLACEMENT OF PLASTIC BORE**

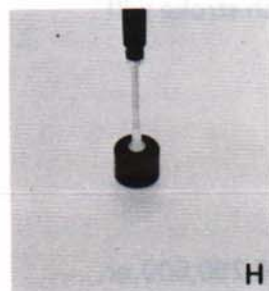
To replace plastic bore, rotate bore to disengage the eccentric, then pull bore straight off unit. To install new bore, first align white dots on eccentric and barrel, then slide on bore. **Second, press plunger cap until it stops against top plate; hold firmly.** Third, to lock bore onto unit, rotate with gentle pressure inward. To assure bore is properly located, release plunger cap, then depress it until it seats against top plate. Microdispenser is now ready for use.



H

H **PLUNGER TIP REPLACEMENT**

Should the plastic plunger become worn or loose it can be easily be replaced with one of the extra tips included with the unit. The old tip should be removed with a razor blade as shown in the photo. Insert the stainless steel plunger into the tip as shown and press firmly until the tip is seated against shoulder.



H

IN CASE OF DIFFICULTY ...

Please do not hesitate to call us concerning any difficulties that may arise. We maintain a complete supply of parts to keep your microdispensers in service.

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