

Portable Pipet-Aid® Operation & Service

All portable units use a Ni-MH rechargeable battery. Recharge the unit when not in operation. Routine overnight charging has no detrimental effect on the battery. When fully charged, the unit will handle a full days' pipetting requirements. Replacement batteries are supplied by Drummond and are matched to our charging units. Do not use another manufacturers' charger. In normal use, the batteries should last at least two years.

If the battery charge is low, operating the unit with the charger plugged in will help, however, if the battery is dead, plugging in the charger will not help. Check apparent "dead" battery with another Drummond charger.

CHANGING THE BATTERY: ([Click here](#) to view Battery Replacement Video) To replace battery, **(1)** Remove entire nosepiece by unscrewing. **(1A)** Older models with "clip-on" nosepieces must have the T.C. bracket removed also. To do this, remove the T.C. gasket which usually remains in the upper portion to the handle. Take a coin and unscrew the T.C. screw to remove the bracket.

Once removed, **(2)** cut the label on the bottom of the handle near the charger terminal.

(3) Remove the 5 screws on the handle.

Once removed, **(4)** place the unit flat on a counter with the SCREW HOLES DOWN.

(5) Lift the top portion off and the internal components will remain in the bottom portion of the handle.

(6) The battery will be seen. Removal may require the gentle prying with a small screw driver to remove. It is held in with double-backed tape.

(7) Unplug battery from connector, replace with new Ni-MH Drummond battery (4-000-035) available from your local laboratory supply dealer or from Drummond directly.

If you experience any difficulty, call Drummond's HOTLINE at: **1-800-523-7480**

T.C. Nosepieces do not use any "cotton" filters. Remove cotton found in any nosepiece. The Drummond Self-locking filter found in all portable nosepieces (and some standard Pipet-Aids), provides a unique protection against overpipetting. One drop of aqueous liquid will cause this filter to block. Replacement is necessary. Other filters do not offer this protection. **DO NOT USE SUBSTITUTES.** Wetting the filter will prevent any liquid flow in the pipet; however, the pump will sound normal. Replacement of the filter will restore normal function. **CAUTION:** When replacing the filter, make sure the rubber insert is clean and dry. A "hang-up" drop of liquid in the rubber insert can ruin the new filter.