

## Battery Type Identification & Upgrade Path

### **Summary:**

*Because the Find-R-Scope® has had such a long life, there are three different battery configurations in the field. If you need to determine what type of battery your Find-R-Scope® uses, or if you want to upgrade your Find-R-Scope® to the single C-cell configuration, the following description and sketches should assist you.*

### **What's in the handle?**

There are two main items residing within the Find-R-Scope® handle. The first item is the chrome plated power supply shown as item (3) on the attached sketches. Beware! This component is sometimes mistaken as a battery. The power supply is used to amplify the 1.5 Volt battery voltage to the approximate 12,000 Volts required to drive the image converter tube. The second item resident in the handle is the battery held by the endcap assembly. Please see the attached sketches to help identify your specific style.

### **What type of batteries has the Find-R-Scope® used?**

The original model used a mercury battery that is no longer available. That was replaced for a short period (circa 1986), by a pair of AAA batteries. Both the mercury battery and AAA end cap configurations are discontinued. The single C-cell version is the configuration currently in production.

### **How do I identify the battery style, and which style is still a useable configuration?**

Review the following sketches to identify your specific style battery/end cap configuration. Item (5) on the sketches shows what we now call the Battery End Cap. If the model you have can accept one C-cell battery, then you have the current configuration. Simply replace the battery, making sure to follow the polarity shown in the manual or within the end cap itself. The C-cell battery should be inserted with the button, (+) end, pointing towards the end cap.

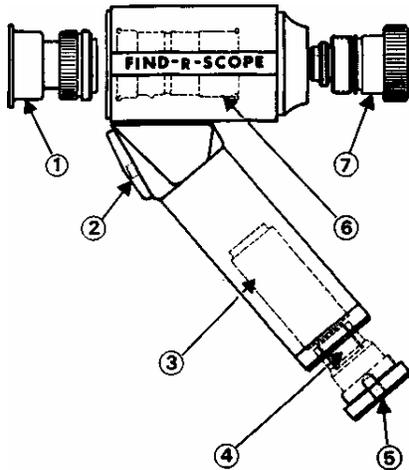
If the end cap assembly accepts two AAA batteries, you can replace the batteries. Note that this old style AAA battery configuration utilizes an additional plastic cap with copper contacts (not shown), on the battery holder assembly. This plastic component is on the battery end opposite the metallic end cap. If you have this part, you can function with the AAA batteries. However, since this part is subject to breakage and corrosion, we suggest replacing that entire end cap assembly with the C-cell configuration discussed below.

If your end cap will not accept a C-cell or the two AAA batteries, then it must be the old mercury battery version. (The mercury battery has a different diameter than a C-cell.) The mercury battery is no longer available, and as far as we know, the alkaline replacement for that battery is also discontinued by the manufacturers. Your option in this case is to purchase a new end cap. The new style end cap will convert either discontinued Find-R-Scopes® battery configurations to accept a standard C-cell. The replacement/conversion C-Cell End Cap is FJW part number \*85086.

\* If you need to replace a vintage endcap that is used with a “folded” unit such as a Helmet-Mounted or Microscopy version, the appropriate replacement part number is 85086-1.

Note 1: The approximate dimensions of a standard C-cell is 26 mm (1”) in diameter by 46 mm (1.8”) long.

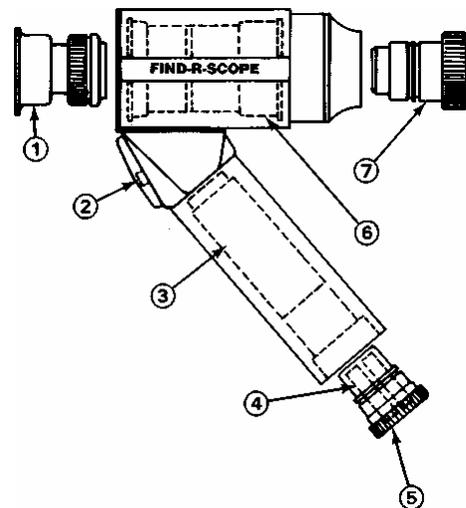
**Discontinued: Mercury Battery Version**



	Component Description
③	High voltage Power Supply
④	Battery
⑤	End Cap



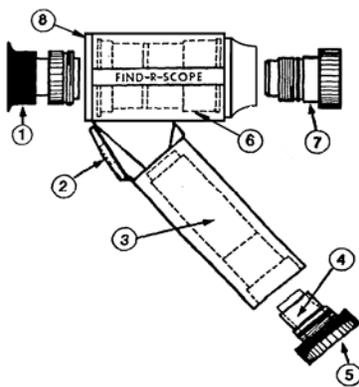
**Discontinued: (2) AAA-Battery Version**



	Component Description
③	High voltage Power Supply
④	Batteries (2) AAA
⑤	Battery end cap



**Current Version: (1) C-cell**



	Component Description	Number
③	High voltage power supply	
④	"C" cell battery	
⑤	Battery end cap assembly	85086

