

2PGA-1000 Polygamma Probe Disassembly Warning

The 2PGA-1000 Polygamma probe contains an electronic circuit board and a fragile NaI crystal and glass photomultiplier tube inside the main housing. **None of these parts are user serviceable.** The user is strongly cautioned to **not attempt to open the probe!** **Opening the housing will void the warranty.** If the user still chooses to open the probe, it can only be opened using the following procedure:

The 2PGA-1000 has a removable “bull-nose” which threads into the bottom of the probe for stand-alone operation as a gamma and R/SP probe. This bull-nose is removed when the 2PGA is connected to the other “Poly” probes for combination probe configuration.

When the bull-nose is removed, a 6-ring connector is exposed inside the bottom of the probe. (see **A**)

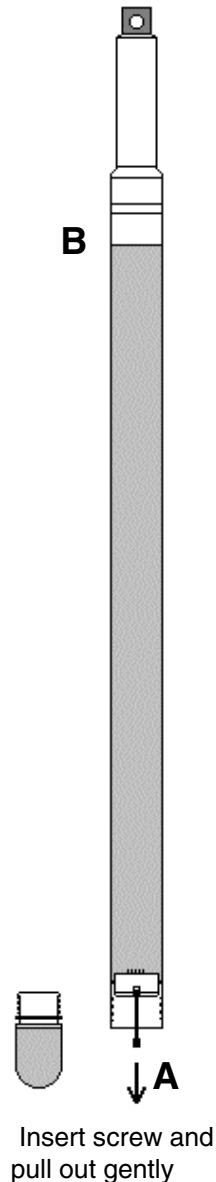
This connector **must be removed before attempting to disassemble the probe housing from the probe top!**

If the user tries to unscrew the probe housing without first removing the bottom connector, **serious and permanent damage may result.**

The 6-ring connector bulkhead is held in place by a “friction fit” due to an O-ring seal located on the bulkhead. This connector can be safely pulled by inserting a long **4-40 English screw or M3 Metric screw** into the middle of the bulkhead and **GENTLY** pulling the connector straight out. Be very careful when pulling the connector out, as there is a **FRAGILE** ten wire ribbon cable & connector attached to it, which runs along side the gamma detector.

Note the location and orientation of the spring washers and the plastic aligning ring, as they must be inserted in the same order when the connector is re-installed (plastic ring-springs-connector).

Once the connector is safely removed, the user can remove the electrical tape which covers the housing/ probe top joint. Remove the M3 socket head cap screw from the joint between housing/probe top. Using hands only (**no wrenches**), carefully unscrew the housing from the probe top. (**B**) The circuit board is firmly attached to the probe top, so the **user must be very careful when sliding the housing off of the electronics chassis** .



To re-assemble follow the reverse procedure, **being very careful with the connector on the bottom of the probe. This connector** is delicate and must be reconnected in the **same orientation as it was removed.**

REMINDER: It is **highly unlikely** that a user in the field will be able to detect and repair any components inside the Polygamma probe, **so disassembly is discouraged** .