

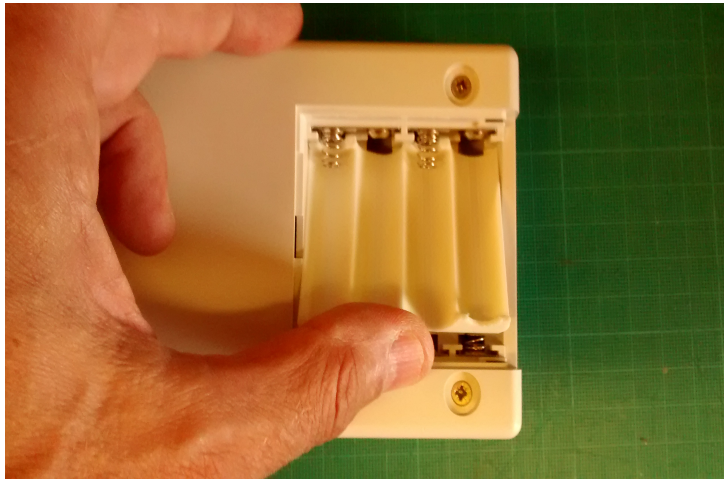
# PB-4 Battery Compartment Insert

Some PB-4 users have discovered that if the PB-4 is subject to a mechanical shock or high level of vibration, it is possible for the batteries to become momentarily disconnected. This brief interruption in power will often cause the WiFi module to crash and so the PB-4 must be turned off and back on again before it can be accessed.

Although the springs used in the battery compartment are reasonably strong, they are obviously not strong enough to keep the positive end of the battery against the contact when the unit is subject to a large shock. Smart Avionics has produced an insert for the battery compartment that augments the action of the springs. With the insert fitted, the unit is much more resilient to mechanical shocks.

Fitting the insert is straightforward:

1. Remove the battery compartment hatch and the batteries.
2. Position the insert such that the end that has two "bumps" is under the springs as shown here



3. Using a penknife or similar flat bladed tool, depress one of the springs on the other side of the battery compartment and slip the insert under the spring. Repeat for the remaining spring. The installed insert should look like this:



4. As the + and – signs moulded into the base of the compartment are now covered, you may wish to add some marks near the contacts to identify their polarity. The springs are the negative contact.
5. Replace the batteries and the hatch.

Please email [support@smartavionics.com](mailto:support@smartavionics.com) if you have any questions or comments.