Quantum Design

PPMS Service Note 1084-303

Cleaning the ACMS Coilset for Optimal Data

It is important to keep your ACMS coilset free of contamination, which can affect your measurements and the reported data. In the event the coilset becomes contaminated, it is easy to clean. Here, the best method for cleaning the coilset and insert is explained.

If you ever suspect that your system is malfunctioning because the data looks faulty, it would be worth your time to clean the coilset as a first step in troubleshooting.

Tools and Equipment

You will need only four items:

- lint-free wipes (Kimwipes or equivalent)
- cotton swabs
- isopropyl alcohol
- a cleaning rod (a cleaning rod for .22 and .30 caliber rifles is ideal. For an example, look in **Cleaning Products** under **Shooting** at www.outdoorsuperstore.com)

Cleaning Procedure

Figure 1 shows the ACMS insert and ACMS coilset in relation to each other.

1. Make a tick mark on the ACMS insert and on the coilset. This will help you align the two parts after you have finished the cleaning.
2. Remove the six (6) screws that hold the ACMS coilset to the insert
3. Separate the coilset and insert.
4. Apply a small amount of isopropyl alcohol to a piece of Kimwipe and wrap the wipe around the tip of the cleaning rod.
5. Swab the inside of the ACMS insert until it is clean.
6. Apply a small amount of isopropyl alcohol to a cotton swab.
7. Swab the inside of the ACMS coilset until it is clean.
8. Screw the ACMS coilset and insert back together, aligning them by the tick marks.
9. Verify that the white dot on the top of the ACMS insert is aligned with the keyed notch at the base of the coilset.

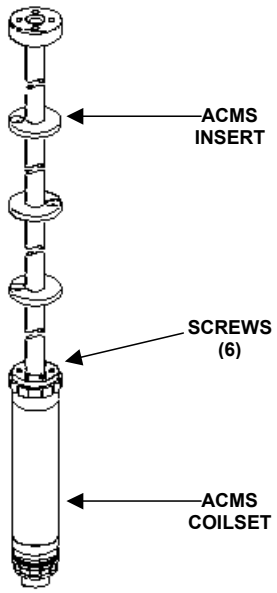

Figure 1. ACMS insert and coilset

10. Re-install the insert and coilset into the sample chamber, using the white dot to align the keyed notch on the coilset with the key on the base of the PPMS sample chamber.