## How to Replace Capillary Sensor Cover Applies to the following: ALL SQA-V (V, Vb, Ve, Vp and Vt) Issue date: May 22, 2011

## Introduction: ESD protection notes

1. The Optical Block is EXTREMELY ESD sensitive; therefore ESD protection measurements must be taken when installing the capillary sensor cover (which is part of the Optical Block in the SQA-V).

Please Note: The warranty will be voided if ESD protection is not used.

- 2. Before starting to work, it is imperative that the environment and workstation include the following to protect components and assemblies sensitive to electrostatic discharge:
  - Grounded workstation and anti-static work surface mat.
  - Wrist strap for worker (See figure below).





## Figure: ESD protection

## Instructions:





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| 3.       | Carefully pull out the optical assembly in order<br>to release it from the front panel (Fig. 4).   | Figure 4: Release the optical assembly                   |
|----------|--|--|
| 4.<br>5. | Place the optical assembly on its side.<br>Release the screw holding the capillary sensor<br>using a #2 philips screwdriver (see fig. 5)   | Figure 5: Release the capillary sensor screw             |
| 6.<br>7. | Take the cover out of the package while wearing<br>latex gloves (without powder).<br><b>Important note:</b> The capillary sensor cover is<br>made of optical film and is very sensitive. If the<br>film is touched with bare hands, fingerprints<br>could impact the transparancy of the film.<br>Slightly press the cover in order to crease it into<br>a more defined, folded shape (see figure 6) | Figure 6: Fold the capillary sensor cover                |
| 8.       | Install the cover on the capillary sensor (see figure 7).  | Figure 7: Install the capillary sensor cover             |
| 9.       | Insert the covered sensor into the designated<br>location at the bottom of the optical block (see<br>figure 8)   | Figure 8: Insert the cover sensor into the optical block |
|          |  |  |





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15. Close the back, front and rear panels of the SQA-V using a #2 philips screwdriver (see Fig. 1 above).





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