This technical bulletin provides an overview of the **Micromate Protective Boot and Cover** (Part No. 721A0301) and installation.

The **Micromate Protective Boot and Cover** have been specifically designed to protect the Micromate unit and provide flexibility when mounting the unit. The robust protective boot and separate protective cover offer easy-on, easy-off installation.

**The Protective Boot**
The protective boot is made of a durable silicon based compound. This material has been designed to handle temperature extremes in excess of -50°C and 100°C (-58°F to 212°F) and still remain flexible. The boot provides protection from impact, foreign objects, prevents water from pooling around the unit and provides several options for mounting the Micromate.

The wrap-around, clear cover, offers protection from water and dust. Each end has a curved lip to help prevent drainage directly onto the connectors, while the sides drain to the outside of the boot. The clear protective cover has been designed to hinge at either end providing flexibility for hand held operations or when units are mounted on a wall or in remote stations.

**Attaching the Protective Boot to the Micromate**
The Protective Boot fits securely around the Micromate unit. However, to help ensure the Micromate remains in the protective boot, the boot can be secured to the back of the Micromate unit with two screws. This will provide additional protection when units are not assigned to a specific individual or if the units are part of a rental fleet.

1) Insert the Micromate unit into the boot with the top on the unit in the direction of the arrows in the boot.
2) Turn the unit over so the back of the boot is accessible.
3) Locate the two mounting holes.
4) Using two 6-32 UNC x ½” pan head screws (M3.5 x 0.6), #6 x .38 OD lock washers and #6 x .38 OD flat washers (9.6 mm), loosely fasten the Protective Boot to the Micromate.

5) Tighten, but do not over-tighten the screws.

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**Installing the Micromate in a Remote Station**

The Micromate Protective Boot can also be used to make the installation in a remote station simpler and more flexible. The boot can be secured to the back plate of the remote station before the Micromate unit is inserted into the boot. This will make your remote station quicker to install, reduce down time for routine tasks, like annual calibration, by allowing units to removed and reinstalled much quicker.

The photos below show one example of a remote station installation. Many other options are possible.

1) Arrange all of the parts, including cables, to be installed in the enclosure to achieve the best fit possible.

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2) Mark and drill the required holes in the mount surface.
3) Secure the individual parts, the Modem and Micromate protective boot in this example, to the mounting surface.

4) Install the Micromate into the protective boot.

5) Install the mounting panel in the enclosure.

6) Pass the geophone and microphone cables through the access hole in the enclosure.
7) Connect the geophone and microphone to the Micromate.
8) Connect the RS-232 to USB cable from the modem to the Micromate.
9) Pass the antenna cable through the access hole of the enclosure and connect it to the modem.
10) Connect the power adaptors to both the modem and the Micromate.
11) Configure the Micromate for remote access. Refer to section 11.4.4 Auto Call Home of the Micromate Operator manual for additional information.

**Round and Irregular Surface Installation**

When it is not possible or convenient to use screws to secure the Micromate in place, the protective boot can be held in place with large plastic tie-wraps or metal straps. The slots in the bottom of the boot provide space for these straps while not interfering with the installation of the unit.