

## MPM Probe Mount Plate Extension

Item # 7409-3-0000

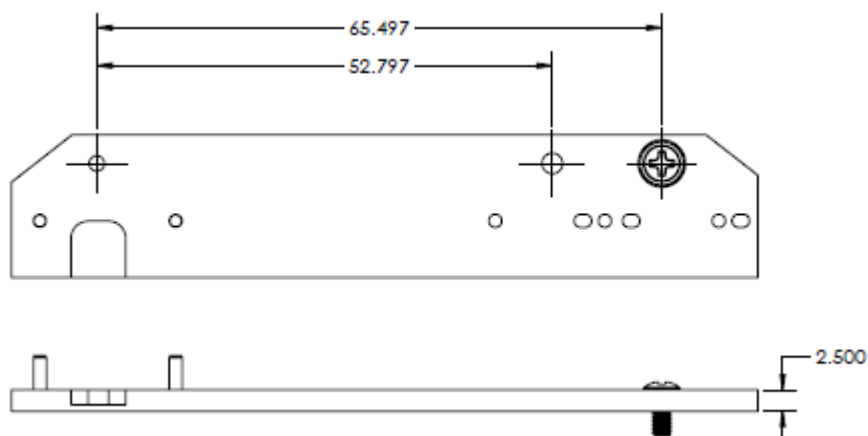
Description: An extension plate that will mount onto a standard 06464-3-0000 M3-LS-3.4-15-XYZ-MPM-Inverted and/or 06464-3-0001 M3-LS-1.4-15-XYZ-MPM-Upright, and allow any standard New Scale Technologies MPM Probe Mount to mount onto the extension plate. The extension has multiple positions that will place the probe closer to the target.

**Extension, Probe Mount Plate, MPM**

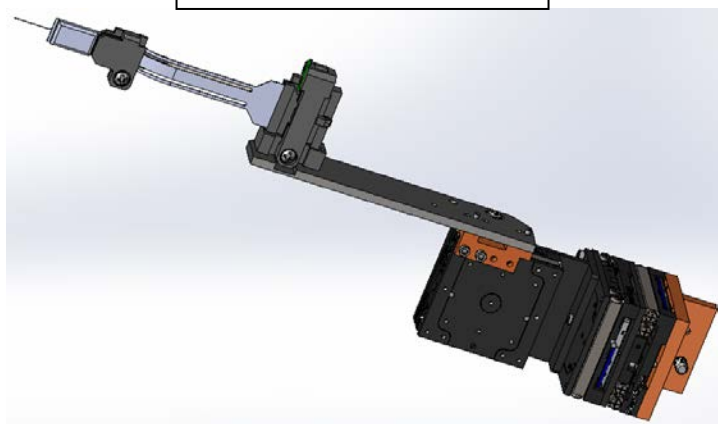


## MPM Probe Mount Plate Extension continued...

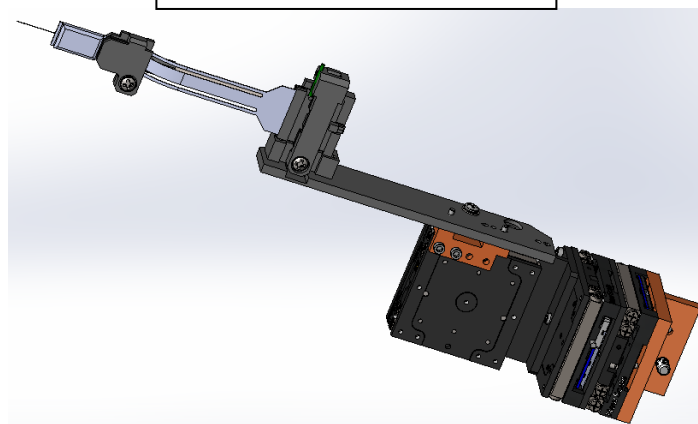
The MPM Probe Mount Plate Extension was designed to place the probe closer to the target with multiple positions, to allow for more options within the workspace. The default top mount position will place the probe ~65.5 mm closer to the target, the alternate top mount position will place the probe ~52.8 mm closer to the target, and there is the option to mount the Extension from the bottom at the ~65.5 mm position (see pictures below).



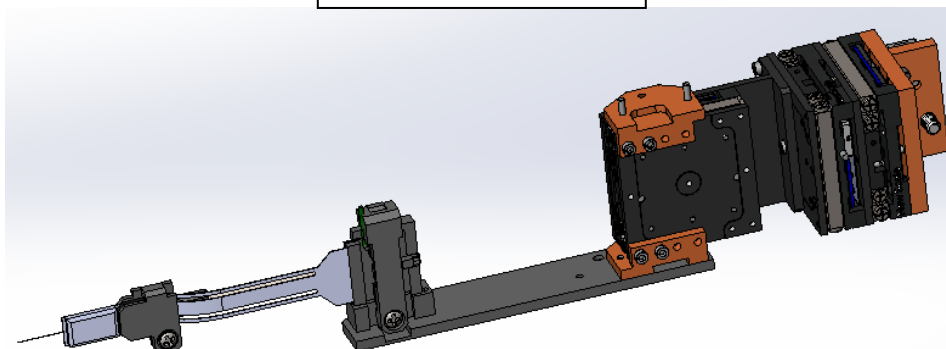
Default Top Mount Position



Alternate Top Mount Position

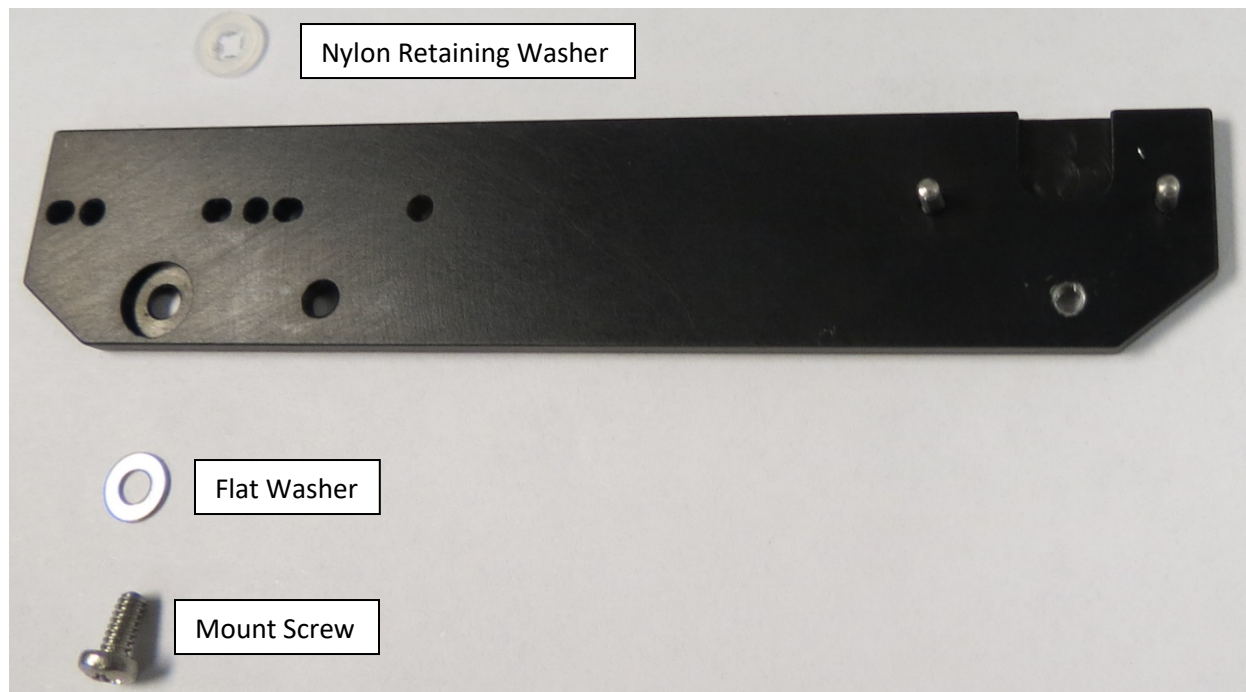


Bottom Mount Position

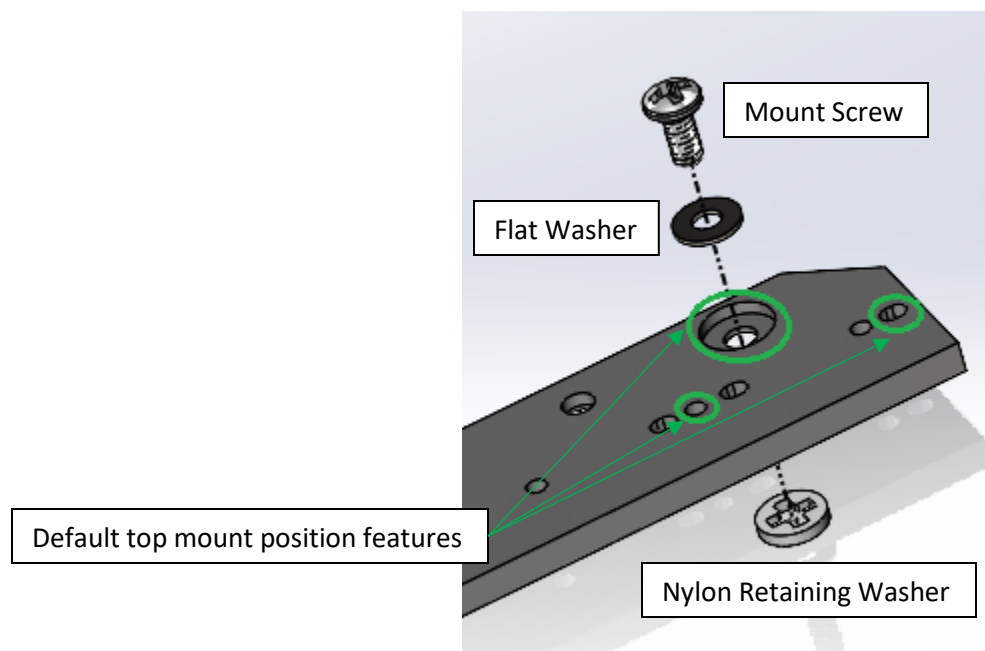


## Install MPM Probe Mount Plate Extension onto M3-LS-3.4-15-XYZ-MPM stage assembly

The mounting hardware (mount screw, flat washer and nylon retaining washer) need to be moved to the proper location for the intended position.

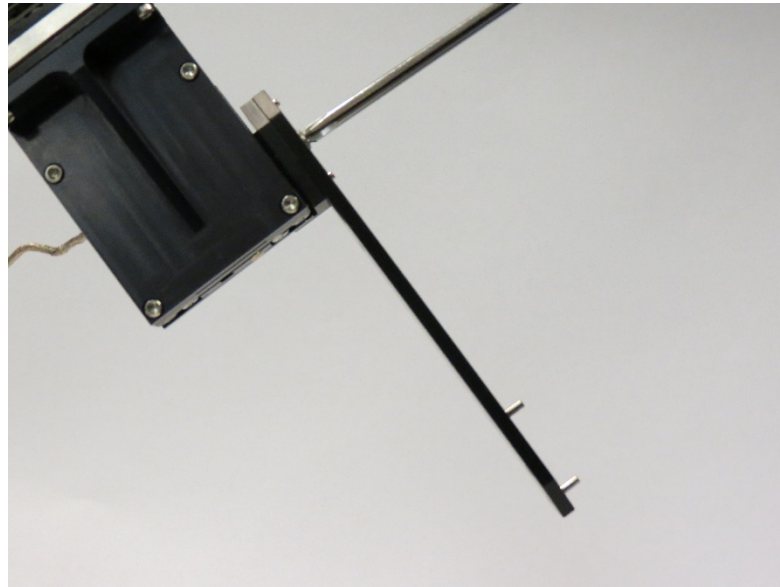
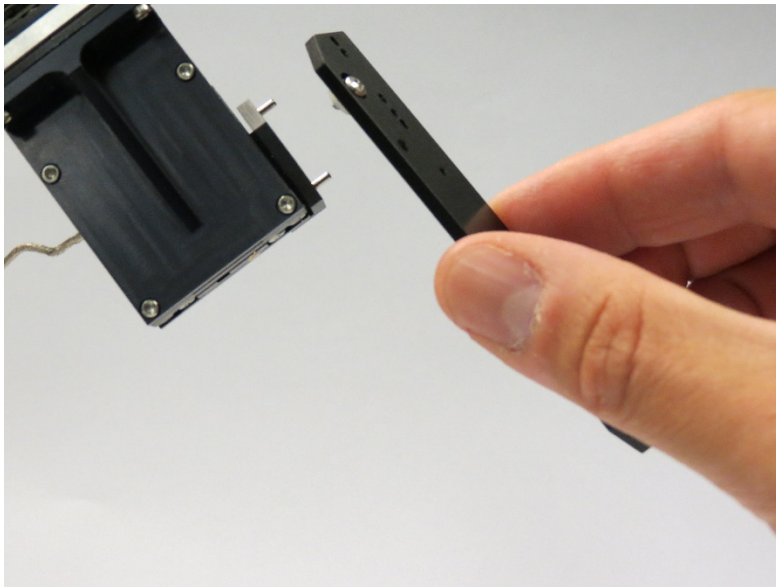


### Default Top Mount Position

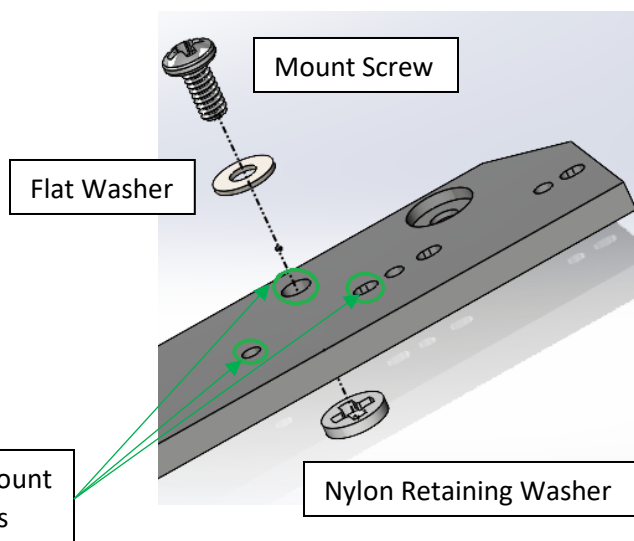


## Install MPM Probe Mount Plate Extension onto M3-LS-3.4-15-XYZ-MPM stage assembly continued...

Align the default top mount position features with the alignment pins and threaded mount hole as shown, tighten mount screw with screwdriver.



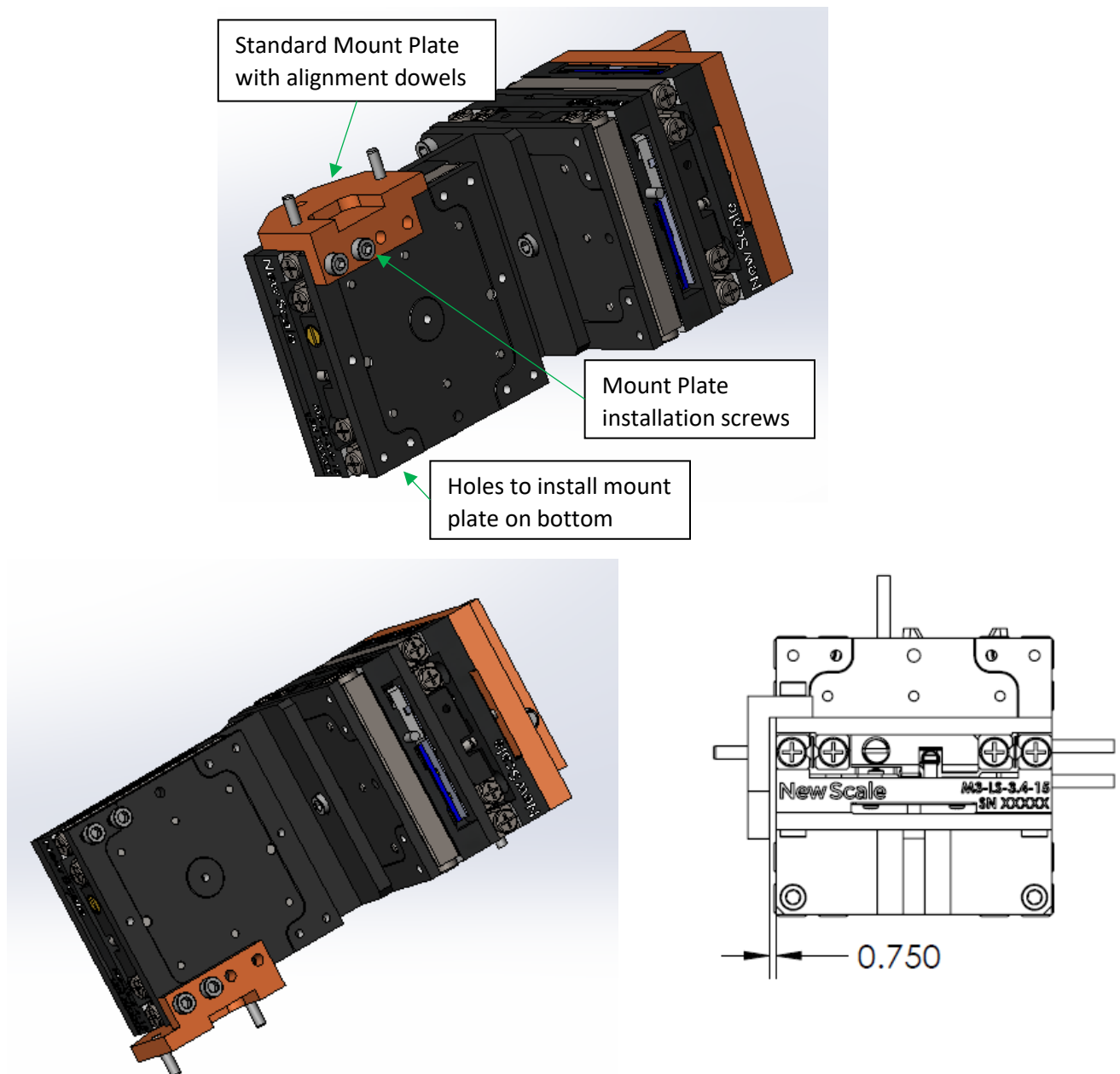
### Alternate Top Mount Position



## Install MPM Probe Mount Plate Extension onto M3-LS-3.4-15-XYZ-MPM stage assembly continued...

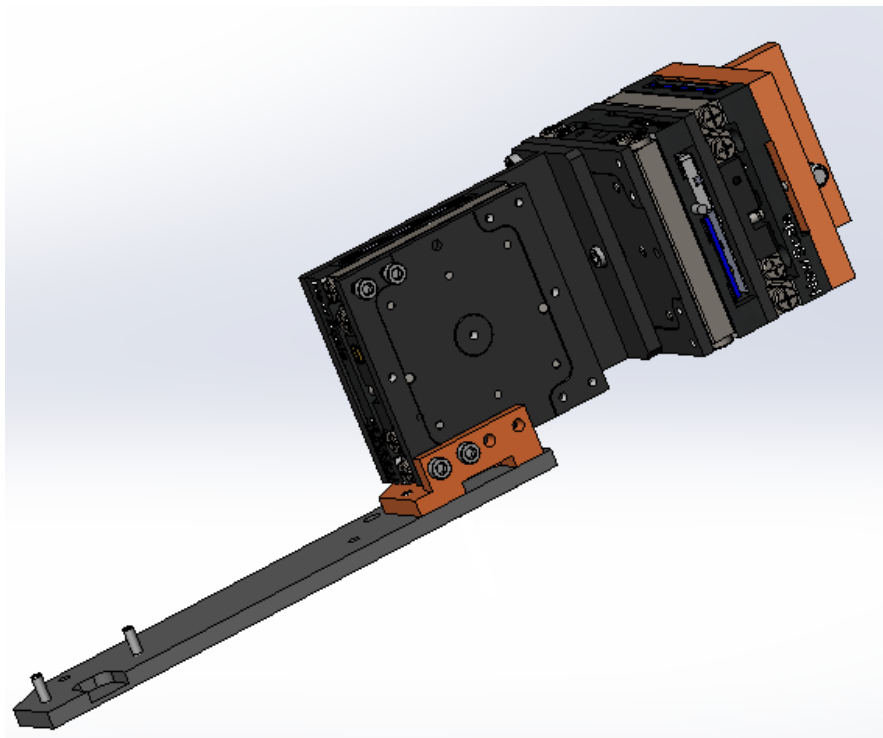
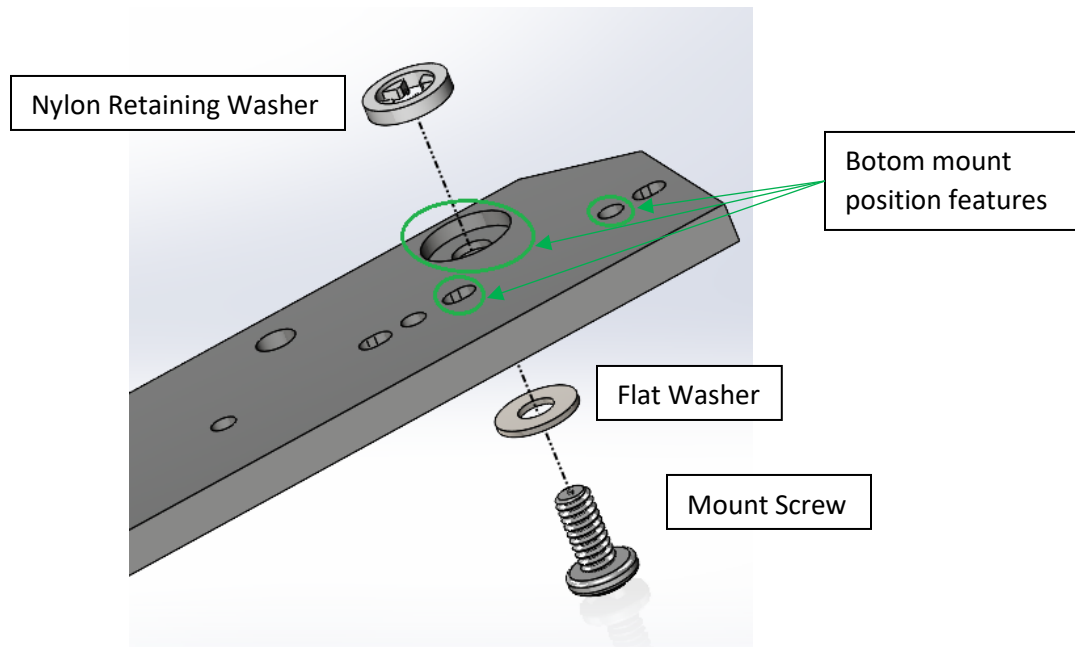
### Bottom Mount Position

To use the bottom mount position, the standard probe mount plate will need to be installed on the bottom of the M3-LS-3.4-15-XYZ-MPM stage assembly. Remove the 2 mount plate installation screws, and install the mount plate on the bottom in the orientation shown. Use a shim to maintain a 0.750 mm gap between the mount plate and the edge of the M3-LS-3.4-15 Z-axis stage as shown.



## Install MPM Probe Mount Plate Extension onto M3-LS-3.4-15-XYZ-MPM stage assembly continued...

To use the bottom mount position, install the mounting hardware as shown. Align the bottom mount position features with the alignment pins and threaded mount hole, tighten mount screw with screwdriver.

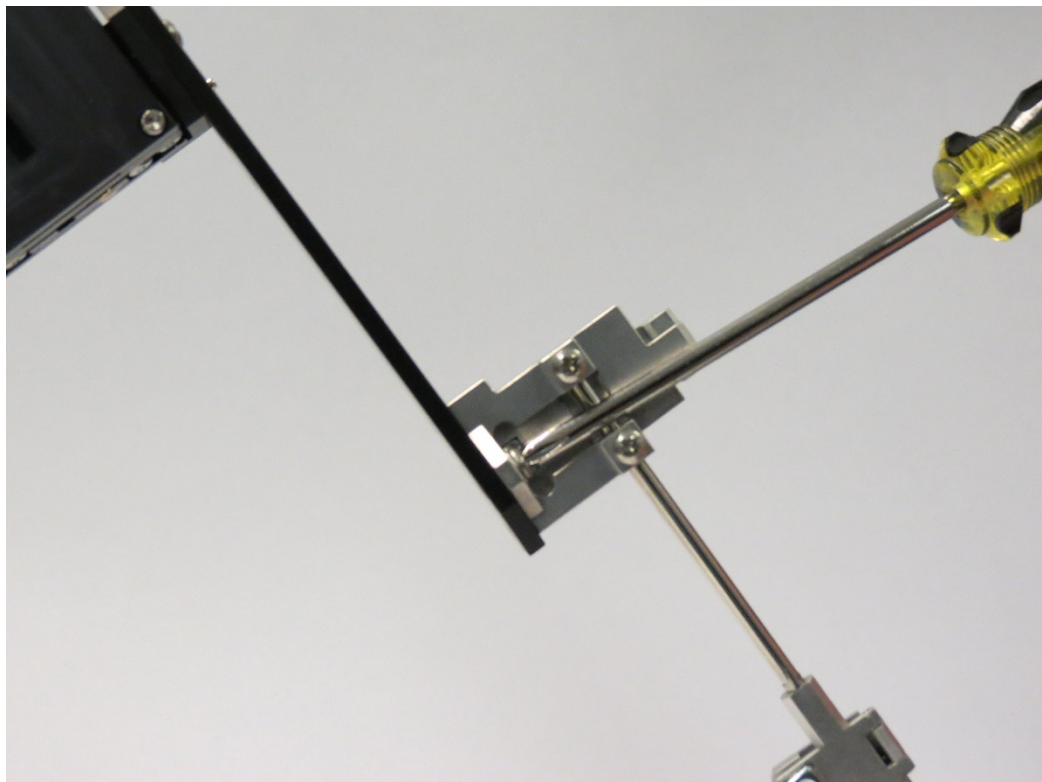
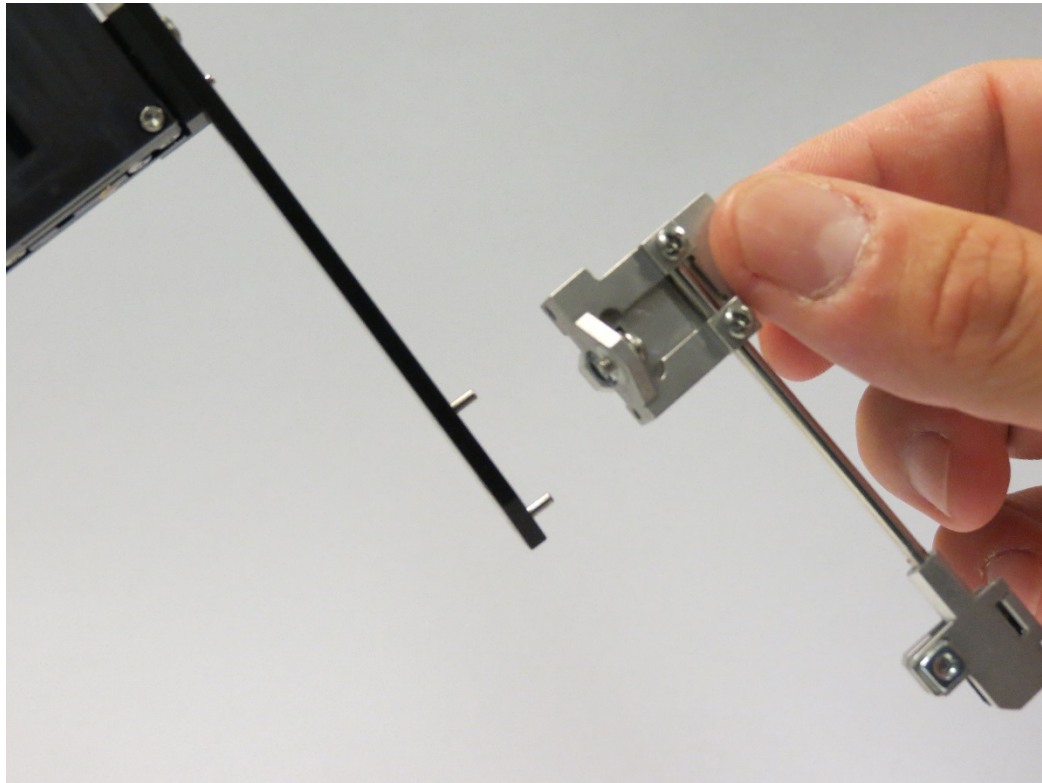




## Install MPM Probe Mount onto MPM Probe Mount Plate Extension

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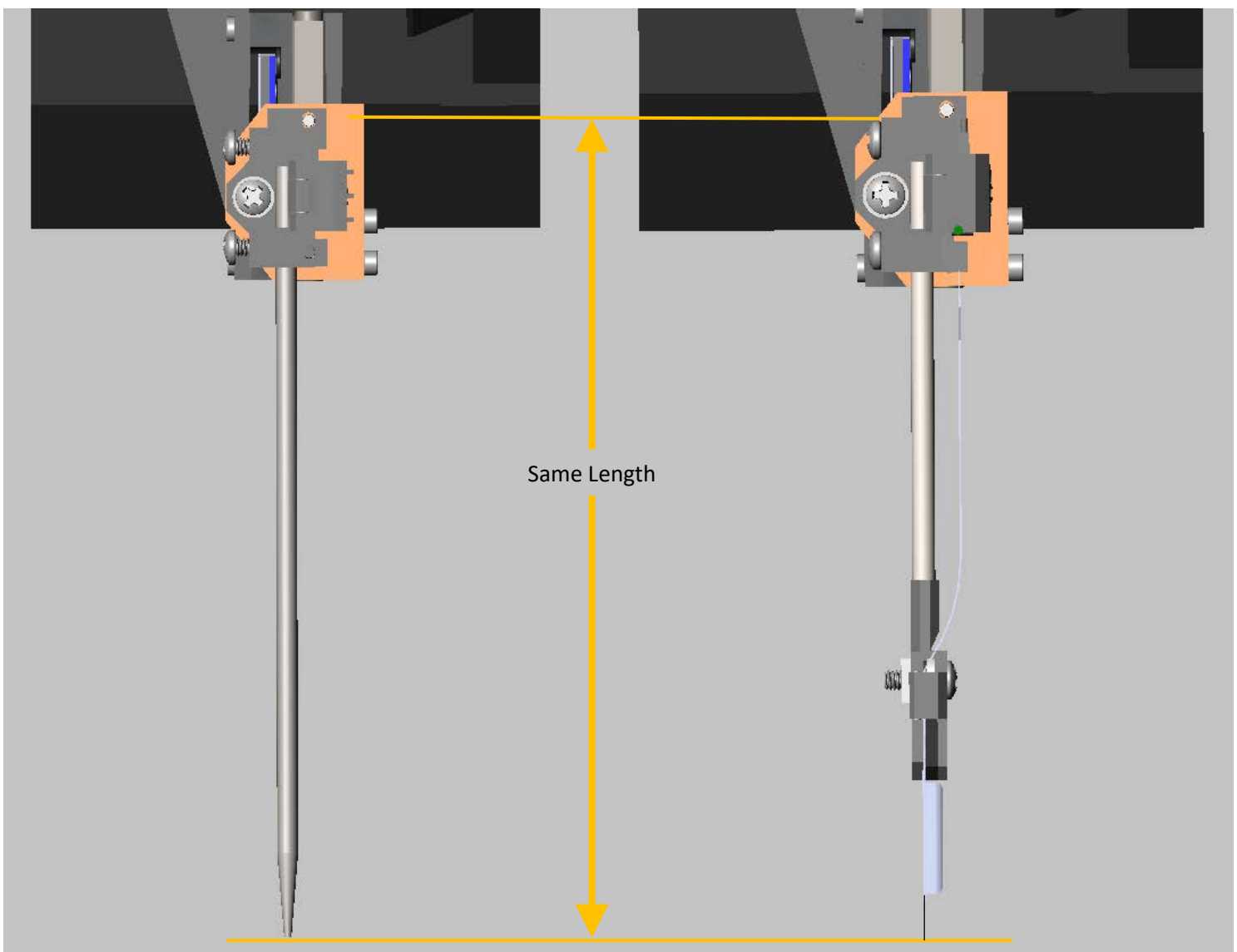
Use the included screw to mount any MPM Probe Mount to the Probe Mount Plate Extension as shown.



## Using the Reference Probe to Pre-Align the MPM-4 DOF Arm

A steel reference probe is provided to allow pre-alignment of the MPM-4 DOF Arm without risking damage to the probe. To make the best use of the steel reference probe, the distance from the base to the tip of the probe should be known and constant. The steel reference probe is used as follows:

1. Remove the rod/probe from the base and replace it with the steel reference probe as shown.
2. Adjust the steel reference probe to the same length as the IMEC probe as shown.
3. With the Arm in the down position, complete pre-alignment of the MPM-4 DOF Arm's vertical, horizontal and insertion angle adjustments to place the steel reference probe tip at the correct insertion angle and starting location.
4. Move the Arm to the up position and replace the steel reference probe with the IMEC probe.
5. Move the Arm to the down position and operate XYZ manipulator to place probe and begin recording.





For questions and support, please contact:

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## Revision History

Revision	Description of changes	Release Date
1	Initial Draft	28 July 2020
2	Corrected wording on page 6 visuals for Bottom mount position features, corrected visual on page 8 about using the calibration rod for Arm positioning/alignment	9 June 2021