

TP1 Tool Probe

The TP1 Tool Probe is a device to accurately set the Z work zero on a Panel Pro 5925.

When in the auto tool path or manual tool path AvCAM operating mode, It is necessary to set Z work zero so that z is zero when the end mill is positioned on top of the material to be cut.

The TP1 is available with a 3 pin connector (1-0320-00) for serial number 2080 and subsequent or a power plug (-01) for 2079 and earlier.

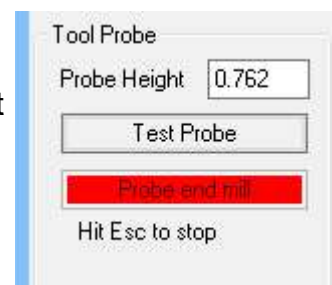
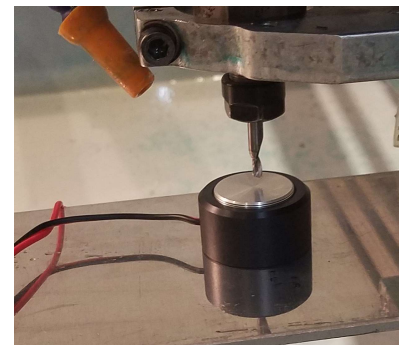
To use:

On first use, the height of the touch pad needs to be entered in the z control dialog. This information is provided with the TP1 and typically does not need to be remeasured. When the touch pad is touched, AvCAM uses this distance to determine the actual material surface.

Plug into the sensor plug on the back of the z axis
Place the black side of the touch pad on the material surface.
Jog the xy axis to a point where you want to set z zero.
Jog the z axis so that the tip of the end mill is about 1/8" above the surface of the touch pad.

Open the z control dialog by hitting the z key or clicking the z status on the bottom of the AvCAM screen. Note the Probe height and change if required.

Each time the probe is used, it must be tested. The TP1 is a normally open circuit which closes when the end mill touches the touch pad. Test by touching the clip to the touch pad and click test probe. If the test is successful, "probe the end mill" is enabled



To set z zero, make sure the clip is attached to the end mill and the touch pad is directly below the end mill. Click "Probe End Mill".

The z axis will move slowly down until it touches the surface. When it touches, the z axis will raise. Z zero is now set.

If you click move to z zero, the end mill will descend to the material surface. Make sure the touch pad is moved out of the way to avoid damage.



The TP1 can now be removed, and the Z control closed.