TECHNICAL BULLETIN - VMD settings adjustment
Enable the Z-Axis Limit Switch (TMX)

Summary of Technical Bulletin: Enable the Z-Axis limit switch in VMD on TMX machines

- Tools Required
  - None

Tools:

The default settings in the Visual Machine Designer for certain machines that run on the Accumove 3 controller has the Z-Axis limit switch disabled. This will go through the steps to enable the Z-Axis limit switch.
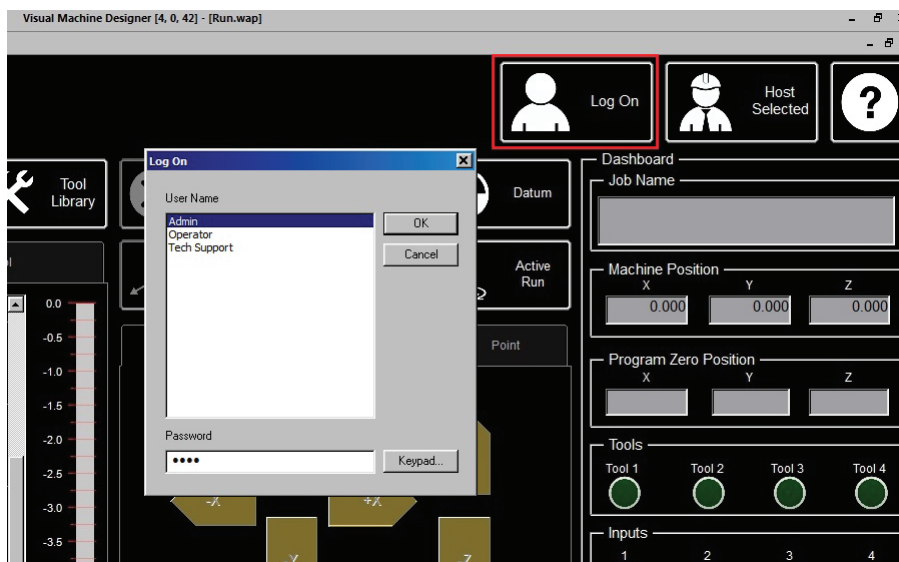
Before you Start:

Have the VMD running along with connection to the Accumove 3 controller. This can be verified by being able to jog the machine.

Access Machine Settings:

In the VMD to access the MACHINE SETTINGS you need to LOG ON. Select LOG ON in the upper right corner of the VMD software. Once in the dialog of LOG ON, select ADMIN and enter "1234" as the password. Once you press OK the MACHINE SETTINGS button will be visible.
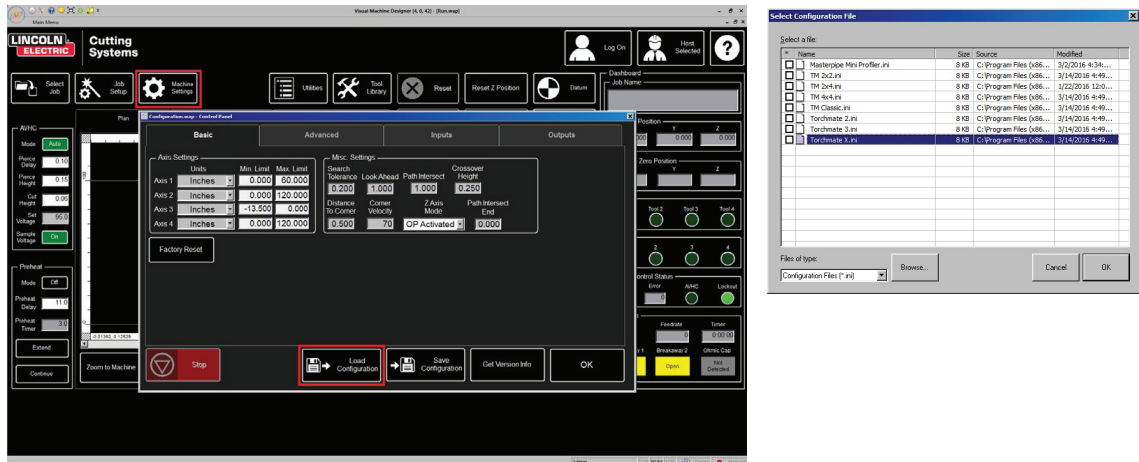
Step 1:

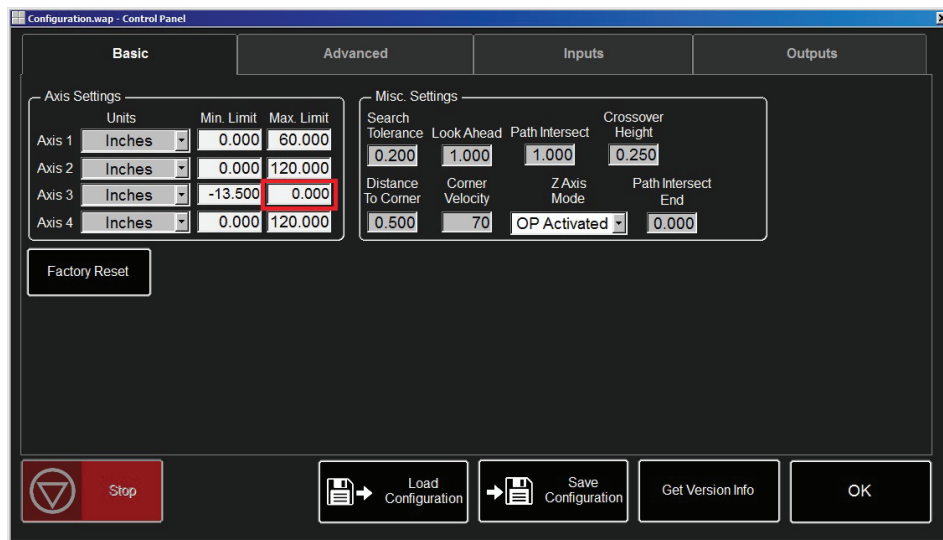TORCHMATE TECHNICAL SUPPORT: 866-571-1066
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Step 2: In the upper left select MACHINE SETTINGS. Once selected will bring up the BASIC tab. Load the DEFAULT configuration for your machine by pressing LOAD CONFIGURATION. Select the configuation by highlighting the machine (not by checking the box). Press OK.
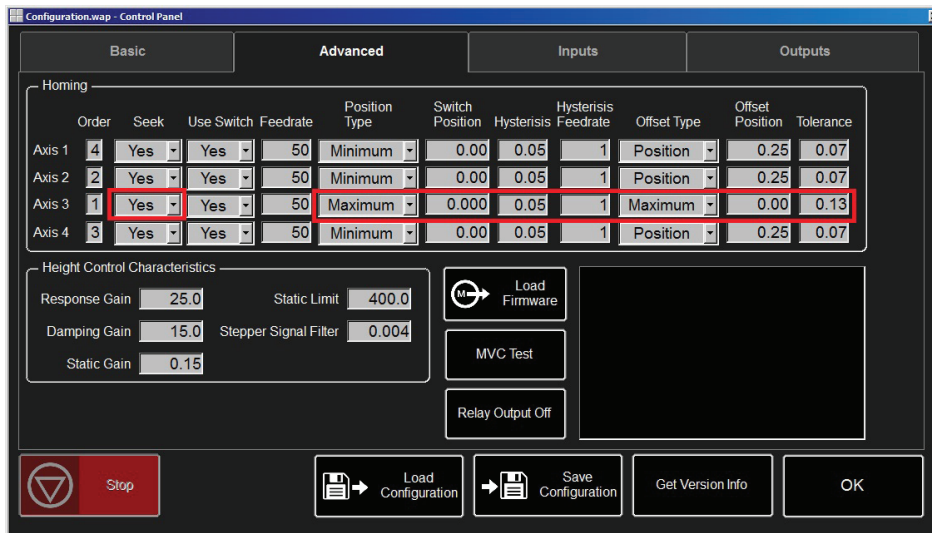

Step 3: Under the BASIC tab, change AXIS 3 MAXIMUM VALUE to 0.000

Step 4: Under ADVANCED TAB, for AXIS 3.

- Change Seek to YES
- Change POSITION TYPE to MAXIMUM
- Change SWITCH POSITION to 0.000
- Change HYSTERISIS to .05
- Change HYSTERISIS FEEDRATE to .5
- Change OFFSET TYPE to MAXIMUM
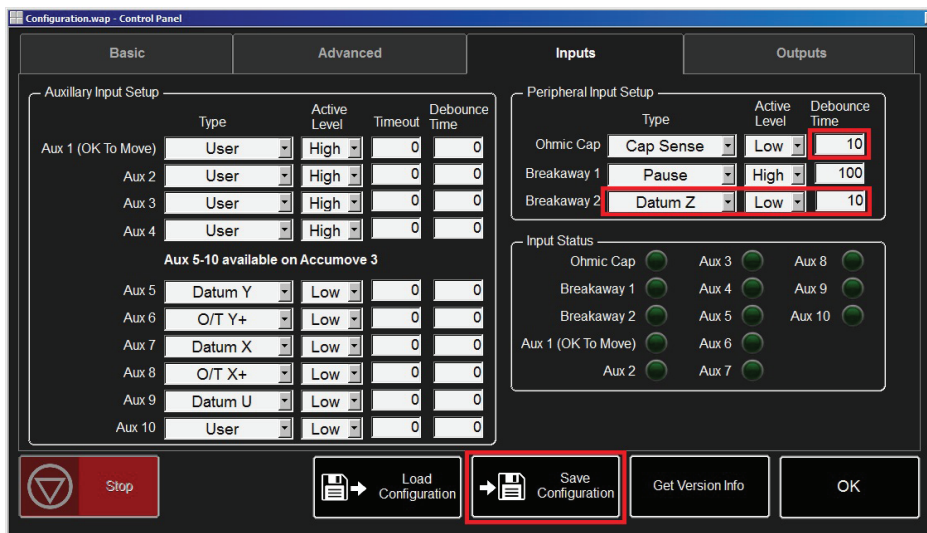- Change OFFSET POSITION to 0.000
- Change TOLERANCE to .125

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Under INPUT TAB

- Change OHMIC CAP DEBOUNCE TIME to 10
- Change BREAKAWAY 2 from PAUSE to DATUM Z
- Change ACTIVE LEVEL for BREAKAWAY 2 to LOW
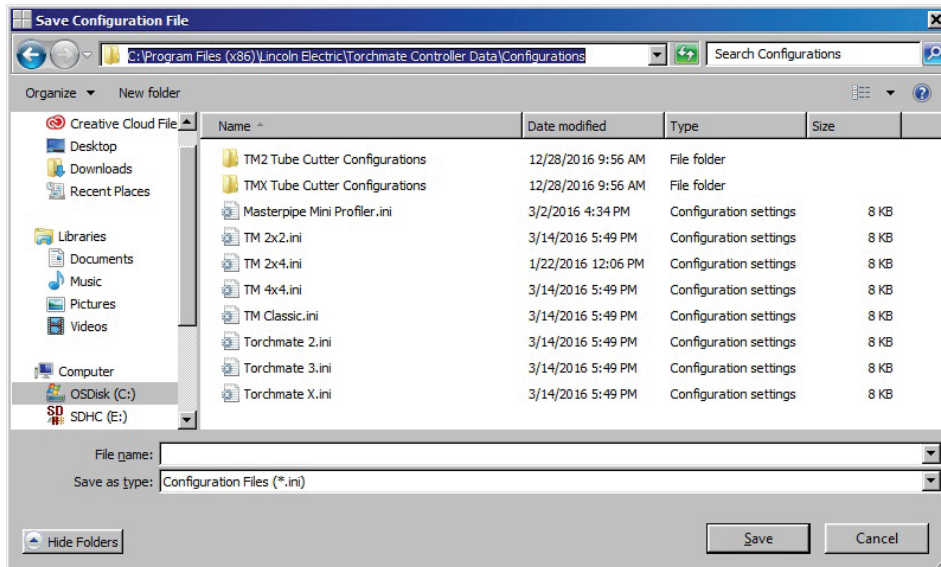- Verify that AUX 5-10 has no DATUM Z, if it does then change to USER.

Once the settings are verified you need to save the configuration. Press SAVE CONFIGURATION. When the BROWSE window pops up double click CONFIGURATIONS. Type in a name for the new configuration and press SAVE. VMD will load this configuration every time it opens.

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Step 6 (cont.):

Final: This will properly configure the breakaway with the proper settings. If you ever need to reinstall VMD for any reason you can save the configuraton and load it. Then you will not have to go through these settings again.

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