Axxis/Talon Accumulators

Trouble Shooting and Diagnostics
Last Changed Nov 11, 2014

You will first want to ensure the input and output nips are set to the factory default speeds:
Open the TMC Remote Panel > Home > Factory Setup > Click Yes

If installing a new potentiometer:
INPUT – Place accumulator at bottom of track. Rotate the white gear all the way clockwise, then back a 1/4 turn. Tighten the potentiometer collar to the accumulator's shaft.

OUTPUT – Place accumulator at bottom of track. Rotate the white gear all the way counter-clockwise, then back a 1/4 turn, tighten the potentiometer collar to the accumulators shaft.

You might want to watch on video starting at minute 4:00 and ending at about 9:30 when it starts to talk about loading new firmware. The link to the video is http://youtu.be/cDAFk5XTVL4?t=4m

Testing the Accumulator Pots

Verify the accumulator potentiometers are reading their respective positions correctly by running diagnostics 41 & 42

Diagnostic 41 (input)
Press Select
Press the right arrow twice to DIA
Press Select (0003 will appear)
Arrow up to 0041 and press Select
The display will now read a decimal # alternating to a non-decimal #

With the input accumulator at the ***bottom*** of it's travel, the **non-decimal #** should read between 1-50
With the input accumulator at the ***top*** of it's travel, the **non-decimal #** should read greater than 0650
As you raise the accumulator from the bottom of it's travel to the top the non-decimal # should continuously increase. If you hold accumulator still the non-decimal # should not change by more than a few counts (+/-10)

Diagnostic 42 (output)
Press Select
Press the right arrow twice to DIA
Press Select (0003 will appear)
Arrow up to 0042 and press Select
The display will now read a decimal # alternating to a non-decimal #

With the input accumulator at the ***bottom*** of it's travel, the **non-decimal #** should greater than 0650
With the input accumulator at the ***top*** of it's travel, the **non-decimal #** should read between 1-50
As you lower the accumulator from the top of it's travel to the bottom the non-decimal # should continuously increase. If you hold accumulator still the non-decimal # should not change by more than a few counts (+/-10)

Mapping the Accumulators

Web the machine so the input (left) accumulator is being held 1.5-3mm (0.06 to 0.12inch) from the bottom of it's travel, and the output accumulator (right) is held 1.5-3mm (0.06 to 0.12inch) from the top of it's travel. Use the nips and pinch wheels to hold the material in place as shown in the photo below. Ensure all nip rollers and pinch wheels are down when running the diagnostic.

DIAGNOSTIC 44:
Press Select
Press the right arrow twice to DIA
Press Select (0003 will appear)
Arrow up to 0044 and press Select
Press Select again
"RUN" will appear and the media will move forward in small increments.
Once the accumulators reach the end of their travel, the material will retract back to original position and the display should say GOOD.
-If it displays "BAD", please contact ADSI technical support
Turn the machine off. Wait 5 seconds. Power the machine back on.
Note the pot can still be non-functional if the diagnostic 44 says it's good.

Check that the accumulator diagnostics match the descriptions below:
Diagnostic 41 (input)
Press Select
Press the right arrow twice to DIA
Press Select (0003 will appear)
Arrow up to 0041 and press Select

- The display will now read a decimal # alternating to a non-decimal #
- With input accumulator at the bottom of it's travel, the decimal # should read 17.50 (+/-0.5)
- With input accumulator held at 1 inch (25 mm) from bottom decimal # should read 15.5 (+/- 0.5)
- With input accumulator at the top of it's travel, the decimal # should read 0.5 (+/-0.5)
- With input accumulator held at 1 inch (22 mm) from top decimal # should read 2 (+/- 0.5)
- At center of vertical travel it should read 8.75 (+/- 1)

Diagnostic 42 (output)
Press Select
Press the right arrow twice to DIA
Press Select (0003 will appear)
Arrow up to 0042 and press Select

- The display will now read a decimal # alternating to a non-decimal #
- With output accumulator at the bottom of it's travel, the decimal # should read between 17.50 (+-0.5)
- With output accumulator held at 1 inch (25 mm) from bottom decimal # should read 15.5 (+/- 0.5)
- With output accumulator at the top of it's travel, the decimal # should read between 0.5 (+-0.5)
- With output accumulator held at 1 inch (22 mm) from top decimal # should read 2 (+/- 0.5)
- At center of vertical travel it should read 8.75 (+/- 1)