

## Correcting a Loop error

A Loop error can occur if either accumulator moves either too high or too low.

If repositioning the accumulators so they are in the correct position does not clear up the problem, or you again receive a Loop error after a number of successful cuts, the potentiometers that track the accumulator positions should be recalibrated using the Diagnostics routines described below.

There will need to be label stock webbed for the diagnostics to run correctly with the accumulators starting at specific positions. Web the machine so the input (left) accumulator is held 1.5-3mm (0.06 to 0.12inch) from the bottom of its travel, and the output accumulator (right) is held 1.5-3mm (0.06 to 0.12inch) from the top of its 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 diagnostics.

### DIAGNOSTIC 44:

1. Press **Select**
2. Press the right arrow twice to **DIA**
3. Press **Select** (0003 will appear)
4. Arrow **Up** to **0044** and press **Select**
5. Press **Select** again
6. **RUN** will appear on the display and the media will move forward in small increments
7. Once the accumulators reach the end of their travel, the material will retract back to original position and the display should say **GOOD**  
NOTE: If the display reads **BAD**, please contact Afinia Label Technical Support!
8. Turn the machine off, wait 5 seconds, and power the machine back on
9. Note the potentiometer can still be non-functional if the diagnostic 44 returns a **GOOD** state
10. Run Diagnostics 41 and 42 as described below



### Diagnostic 41 (Input Accumulator)

1. Press **Select**
2. Press the **Right** arrow twice to **DIA**
3. Press **Select** (0003 will appear)
4. Arrow **Up** to **0041** and press **Select**; the display will alternate between a decimal number and a non-decimal number
5. With input accumulator at the bottom, the decimal number should read **17.50** (+/-0.5)
6. With input accumulator held at 1 inch (25 mm) from bottom, the decimal number should read **15.5** (+/- 0.5)
7. With input accumulator at the top, the decimal number should read **0.5** (+/-0.5)
8. With input accumulator held at 1 inch (25 mm) from the top, decimal number should read **2** (+/- 0.5)
9. At center of vertical travel it should read **8.75** (+/- 1)

### Diagnostic 42 (Output Accumulator)

1. Press **Select**
2. Press the right arrow twice to **DIA**

3. Press **Select** (0003 will appear)
4. Arrow **Up** to **0042** and press **Select**; the display will alternate between a decimal # and a non-decimal #
5. With output accumulator at the bottom, the decimal number should read **17.50** (+-0.5)
6. With output accumulator held at 1 inch (25 mm) from bottom, decimal number should read **15.5** (+/- 0.5)
7. With output accumulator at the top, the decimal number should read **0.5** (+-0.5)
8. With output accumulator held at 1 inch (25 mm) from top decimal number should read **2** (+/- 0.5)
9. At center of vertical travel it should read **8.75** (+/- 1)

If either accumulator returns values outside of the ranges specified, re-run Diagnostic 44 and repeat Diagnostics 41 and 42.

With these diagnostics run and returning the correct information, the potentiometers in the accumulators have been properly recalibrated.