AGFA *Agfa*   **Support Tip**

Avantra 30 DSP Adjustment for Media Feed Problems

Document Information

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Introduction

The Avantra 30 Feed Calibration adjusts the speed of the supply and take-up motors and stores the values as DEC DSP parameters. The calibration routine sets the supply motor to run slightly faster than the take-up motor. This setting provides good performance in the majority of systems. Some systems however have shown media lifting, hot spots, and in some cases, buckling with the supply constant value that is returned from the calibration routine. In these systems the DSP supply constant value can be manually calculated to run the supply motor up to 7% faster than the take-up.

When to Perform this Procedure

Perform this procedure in AV30 systems when media lift or registration issues cannot be resolved with feed calibration. This procedure should be done only after thoroughly examining the system for mechanical problems (supply rollers, nip assembly, cassettes, etc.).

Supplies and Equipment Required

- PC running AvDiag or UniDiag (UniDiag recommended)
- Calculator to convert Decimal to Hex (Windows Scientific calculator can be used)
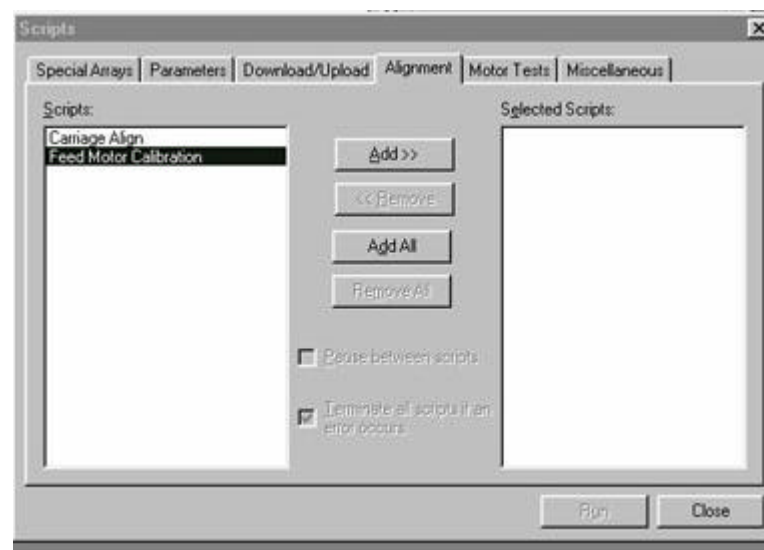
Guidelines

The feedcal30.pdf procedure from Marc De Greef shows in detail how to calculate the new supply constant value. The procedure

references a 7% calculated supply constant. This value is the upper limit, in testing, values in the 5% range provided good results. In the procedure you will:

- Run Feed Calibration.
- Calculate new Supply Constant from Take Up Constant by:
    - Converting the returned Take Up Constant to decimal.
    - Multiply the decimal value by 0.93.
    - Convert the result back to hex.
- Enter the new value.
    - Using AvDiag:
    - From the Align pull down menu, enter the calculated hex value into DEC/DSP location **04.**
        - For AvDiag 2.63, the value can be found in DEC <Media 2/DSP>.
        - For AvDiag 2.60, the value can be found in DEC Plate/DSP.
- Exit AvDiag, reboot AV30 and test media handling.
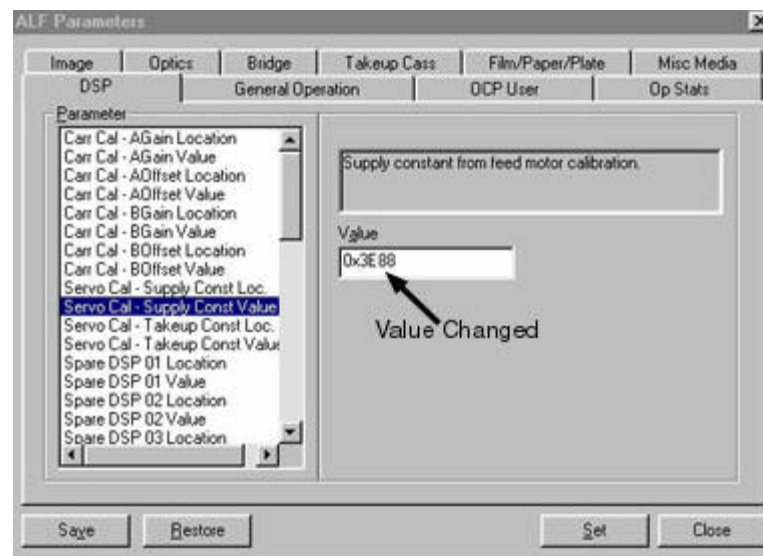- If using UniDiag, refer to the procedure listed below.

UniDiag Procedure

Run Feed Calibration by selecting: Tools/Scripts select the Alignment tab and run Feed Calibration.

Calculate the new Supply Constant using the instructions listed in the Guidelines section. Use the procedure below to enter the new Supply Constant.

- Select Tools/Parameters-ALF.
- Select the DSP tab, locate and select "ServoCal-Suppl Const Value".
- The Value window will display the current constant value (preceded by 0x). The four digit value is the number to be changed. Enter the new Supply Constant and click the Set button, DO NOT change the 0x in the field.

- Exit UniDiag, reboot the Avantra 30 and test media handling.