Information Sheet IS14005A

VS2.5, NVLT & GV Series FM Transmitter - PA Bias Procedure

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INFORMATION SHEET

1 INTRODUCTION

The VS2.5, NVLT and GV Series FM transmitters use power amplifier pallets that require a dc bias voltage for optimal operation. This information sheet provides the procedure to perform the PA biasing routine.

1.1 Equipment Affected

This procedure applies to the following FM transmitters:

- VS2.5 using VS software version 4.1.2 and greater
- NVLT series using NVLT software version 4.2.3 and greater
- GV series using GV software version 4.0.4 and greater.

1.2 Responsibility for Implementation of Procedure

Only qualified station maintenance personnel who are familiar with the VS2.5, NVLT or GV series FM transmitter, as applicable, should perform this procedure.

1.3 Scheduling

Implement this procedure prior to turning on RF for the first time and any time after a module or PA is moved or replaced in the transmitter.

1.4 Manpower Requirements

Completing this modification will require approximately 10 minutes. Note that it is necessary for the transmitter to be placed in an off-air state (RF off) for the duration of this procedure.

2 RUNNING THE PA BIAS ROUTINE

(a) Disable the RF power stage (RF off).

(b) Navigate to the bias routine option on the LCD UI, noting there are slight path variations depending on software versions:

- For VS2.5, go to Menu ► System Settings ► Calibration ► Bias Routine **OR** to Menu ► System Settings ► Factory Settings ► Calibration ► Bias Routine
- For NVLT, go to: Menu ► System Settings ► Calibration ► Xmtr PA Bias **OR** to Menu ► System Settings ► Factory Settings ► Calibration ► Xmtr PA Bias
- For GV, go to: Menu ► System Settings ► Factory Settings ► Calibration ► Xmtr PA Bias

(c) Press the checkmark (accept) button to start the routine.

(d) When the routine is complete, the LCD UI will display "*Press ✔ to begin".* At this point you can enable RF (RF on) and return to normal operation.

If you have any questions or require additional assistance, please contact Nautel's Customer Service Department at:
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