TRILITHIC **Application Note**

860 DSPi 85 MHz Return Transmitter Board

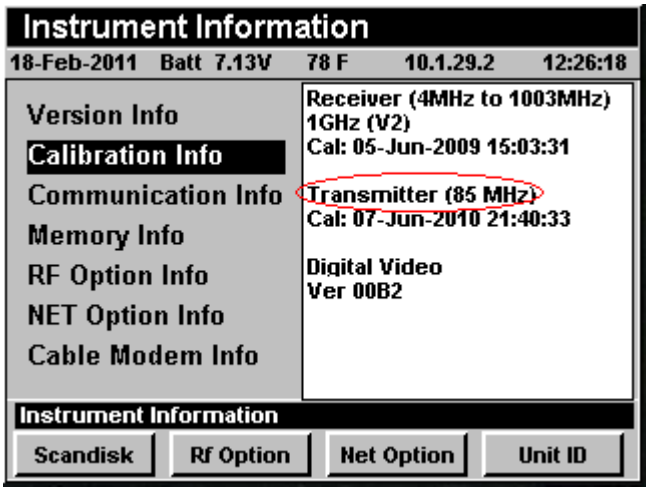
The 860 DSPi with the 85 MHz return board P/N 2072133000 allows the technician to utilize and 85 MHz low pass filter (when activated), it also allows the technician to turn on the Pre-Amp which is now activated with this board. The Pre-Amp / Low pass filter can be turned off and on inside the Spectrum Analyzer mode. The Pre-Amplifier adds in +17 dB of amplification. The low pass filter runs from 85 MHz and below, cutting off anything above 85 MHz.

There are three distinct benefits to having the Preamp/LPF built inside the 860 DSPi:

1. Allowing the technician to dive deeper into the noise, where as before he could not see down that low.
2. Keeping the meter from overloading due to forward channel power.
3. This feature makes a considerable difference when tracking noise in the system.

The screen capture shown to the right provides an example of the information shown on the Calibration Info screen, this information can be used to verify whether this option has been installed in the 860 DSPi.

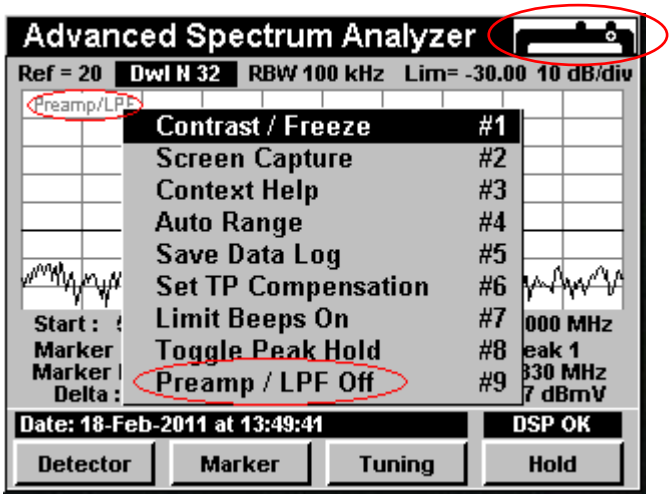
To determine if the 860 DSPi has the 85 MHz return transmitter board installed, turn on the 860 DSPi, press the "Setup" softkey, then go into "Info". Under Calibration Info you should see Transmitter (85mhz).



The screen capture shown to the right provides an example of how to turn on/off the Preamp/LPF.

To turn on the Pre-Amp go into the "Spectrum" option on the installer screen. Once inside, press the "FN" key on the 860 DSPi. This will open the function menu and then select the option "Preamp / LPF". Once the Preamp/LPF is turned on you will see in the upper right on the spectrum graph "Preamp/LPF", this indicates you are using the Preamp and Low pass filter.

Note that the Preamp/LPF mode uses the alternate input connection.



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