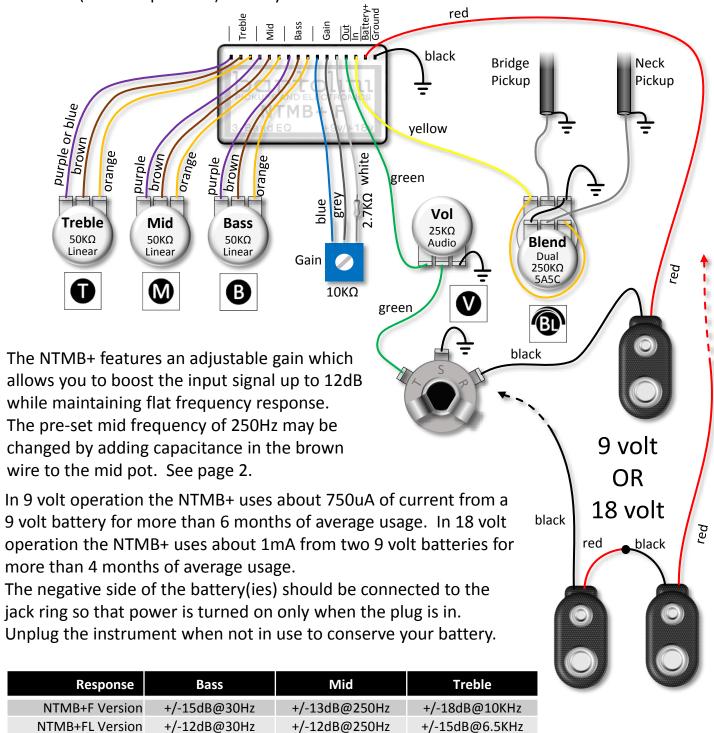
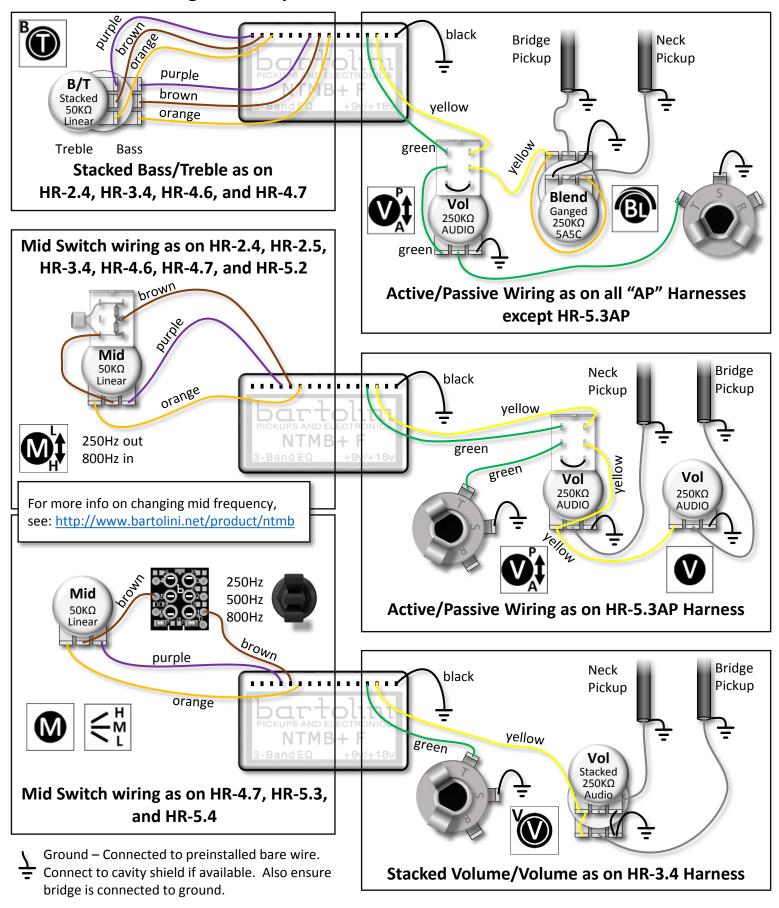
## 3-Band 9 volt or 18 volt Preamp/Tone control with switchable Mid frequency

The NTMB+ is a tone control preamp with fully independent Bass, Mid and Treble controls with very low noise and wide boost/cut range. The sound is extremely clear and transparent. Distortion is well below 0.001%.

This preamp can be used with either a single 9 volt battery (9 volt operation) or two 9 volt batteries (18 volt operation) which yields 6dB extra headroom.



## **Configuration Options on Standard Pre-Wired Harnesses**



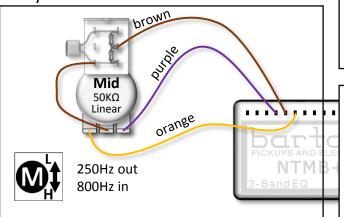
## bartolini Pickups and Electronics

## **NTMB+ Mid Switch Configuration**

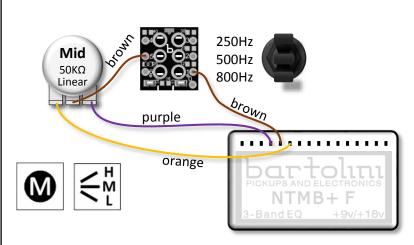
The NTMB+ mid frequency can be changed by adding capacitance in series with the brown wire from the module to the center lug of the Mid control. The frequency is the same for boost and cut. If the brown wire is connected without additional capacitance, the frequency is set to 250Hz. The following table lists the capacitance and the resulting mid frequency.

Capacitance (uF)	Frequency (Hz)
None	250
0.47	450
0.33	500
0.22	550
0.19	620
0.16	670
0.13	750
0.11	800
0.10	840
0.082	930
0.068	1020

The pre-set Mid frequencies on the HR-2.4, HR-2.5, HR-3.4, HR-4.6, and HR-5.2 are 250Hz and 800Hz. If you want to change these values, you will need to remove the pre-loaded capacitor and add your own.



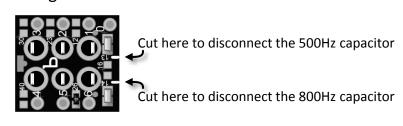
Pre-Set Mid Switch wiring as on HR-2.4, HR-2.5, HR-3.4, HR-4.6, and HR-5.2



Pre-Set Mid Switch wiring as on HR-4.7, HR-5.3, and HR-5.4

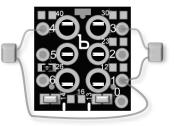
The pre-set Mid frequencies on the HR-4.7, HR-5.3, and HR-5.4 are 250Hz, 500Hz and 800Hz. The appropriate capacitors are loaded on the printed circuit board (PCB). If you want to change these values, you will need to remove or disconnect the pre-loaded capacitors and add your own.

To disconnect the preloaded capacitors, cut through the PCB at the white line where shown.



To add your own capacitors, solder where shown.

Add upper switch position capacitor between holes 1 & 4



Add center switch position capacitor between holes 1 & 3