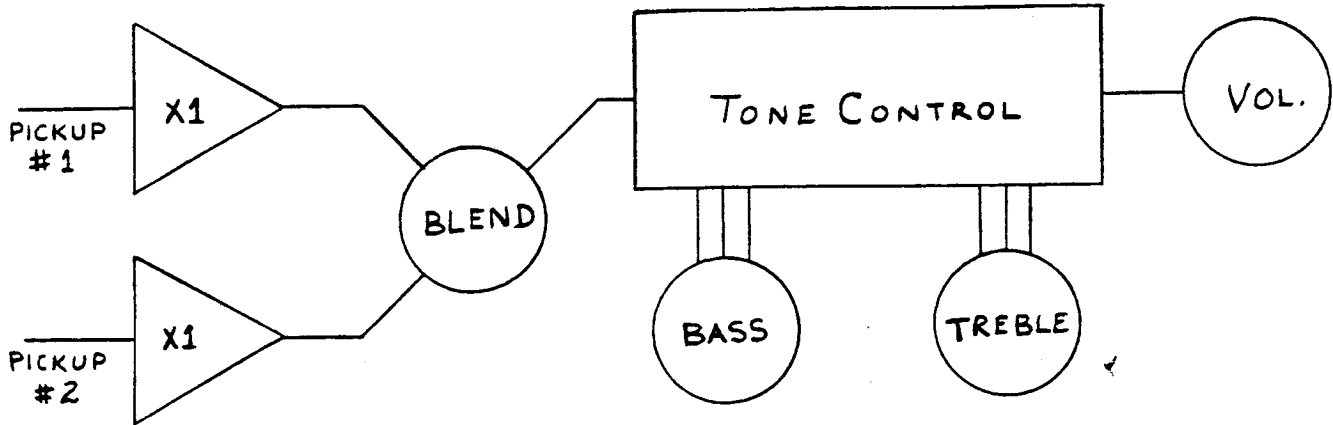
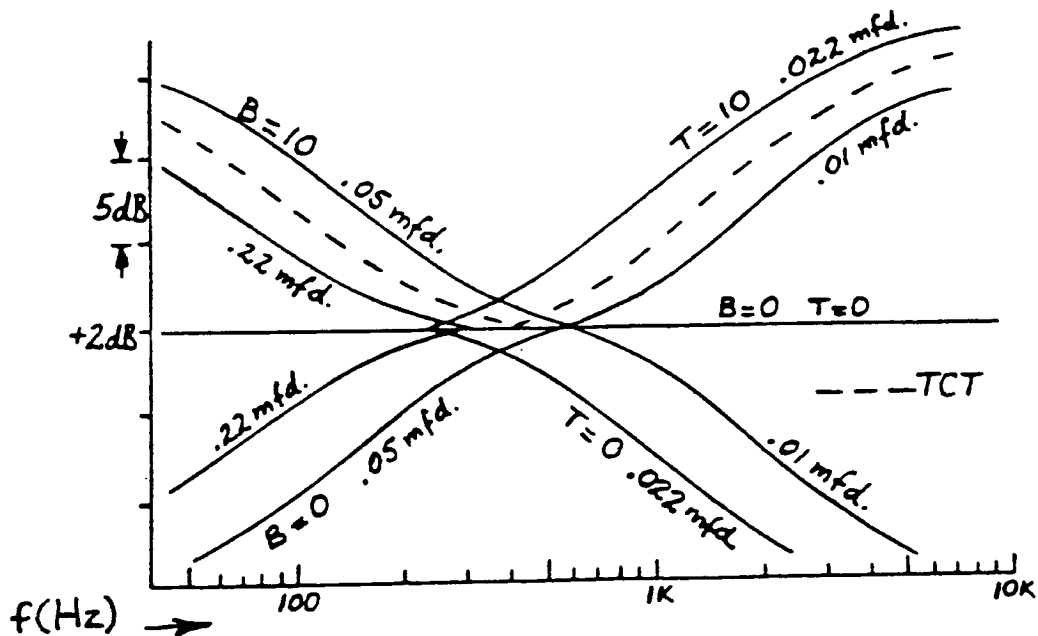


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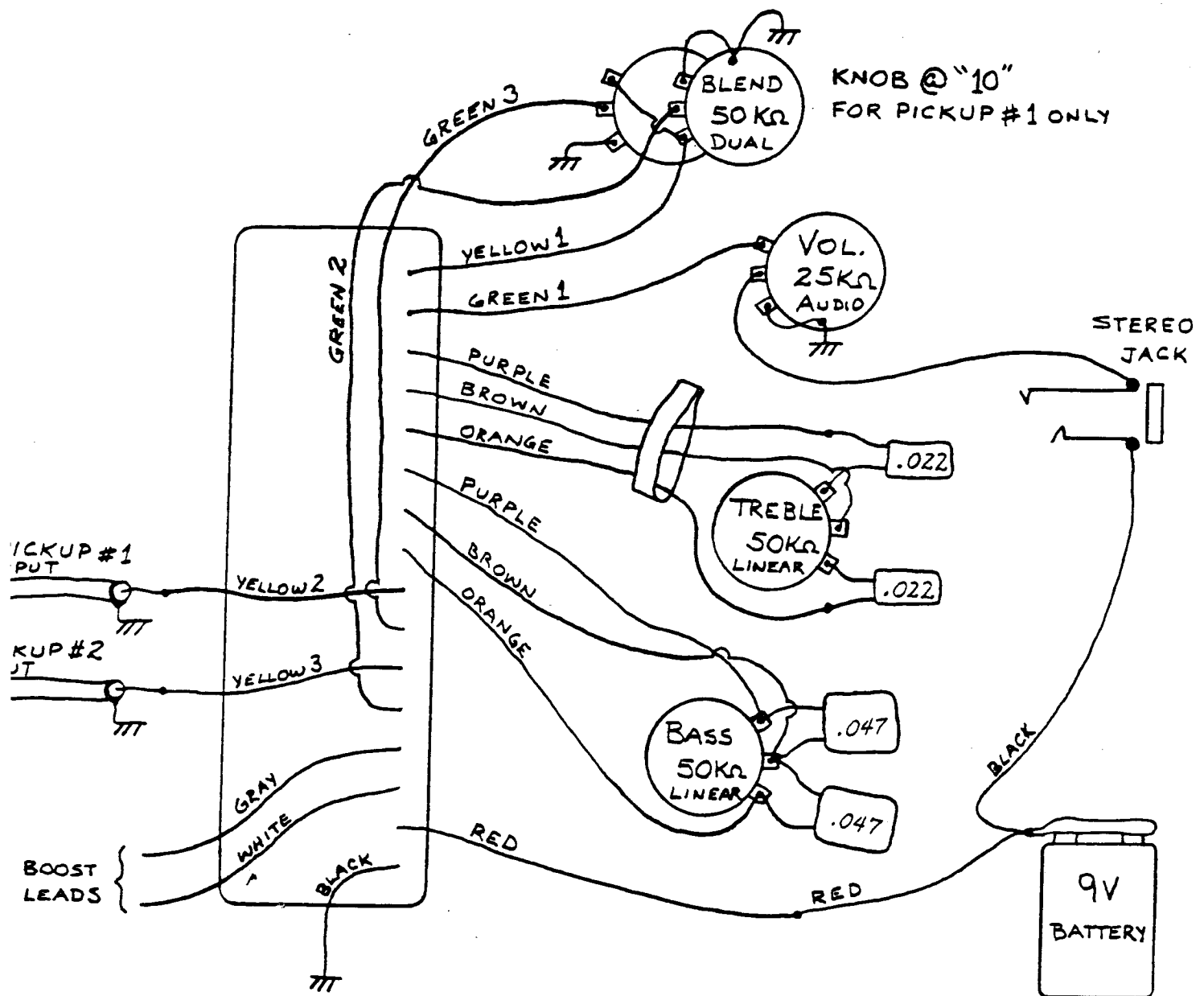
ACTIVE TONE CONTROL with LOW IMPEDANCE BLEND ("panpot")
Buffered Input Bass and Treble control - model TBIBT



The TBIBT module is designed to obtain the maximum clarity, brilliance and tonal range from basses with two pickups. The input buffers isolate the pickups from the blend control (panpot) to prevent the loss of clarity and attack that usually occurs with passive blend controls. The low impedance blend of the two pickups is connected to the input of the tone control section. This part of the module has the same response as our TBT module, but its input impedance has been reduced to lower the noise level. The low impedance output of the tone control section is connected to the Volume control for highest signal-to-noise ratios at all Volume settings.



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Input impedance at #1 and #2 inputs is 300 K-ohm
 Output impedance at #1 and #2 outputs is < 10 K-ohm
 Gain for both of these buffer stages is 1.0 (0 dB)
 Input impedance at #3 input is 50 K-ohm
 Output impedance at #3 output is < 10 K-ohm
 Boost and cut from each tone control is approx. 15 dB. With tone controls set "flat"
 (no boost or cut) the gain of the tone control section is approx. 2 dB.

The boost leads allow an increase in the gain of the tone control section.
 Connecting a 6.8 K-ohm resistor from one boost lead to the other results
 in approx. 6 dB (2X) flat boost (full range). If a 3.6 K-ohm resistor in
 series with an unpolarized 1 mfd capacitor is connected between the boost
 leads the result is approx. 12 dB (4X) boost in the mid and treble frequencies.