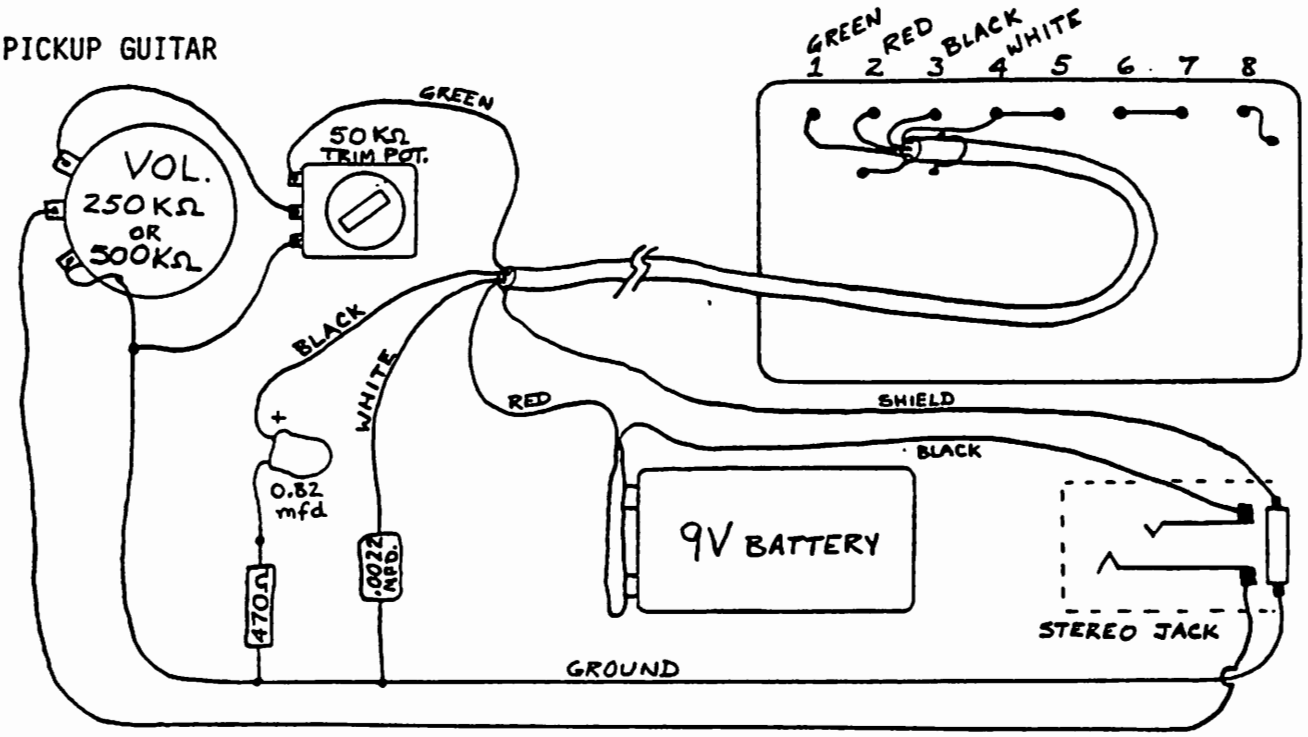
bartolini

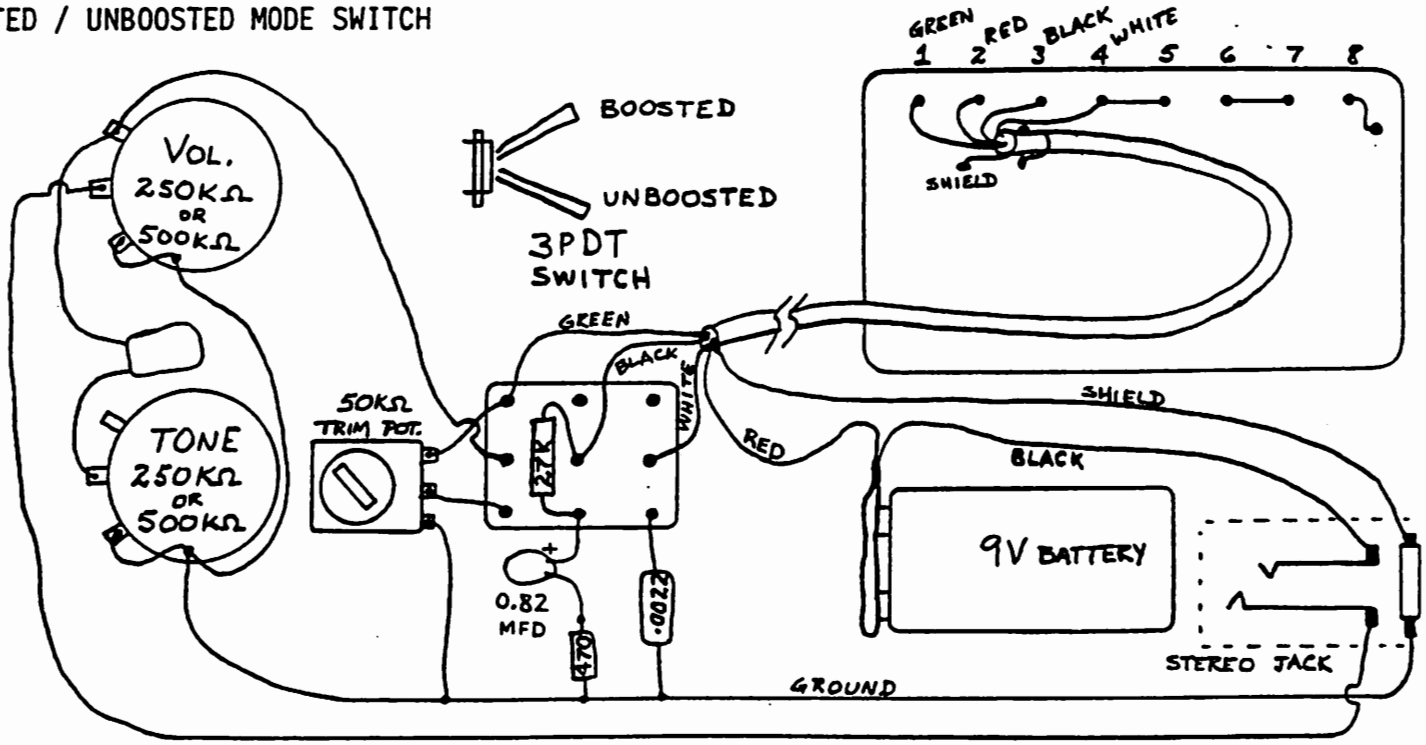
MODEL E90-D (old ETC-D) ACTIVE ELECTRONIC PICKUP

1. Preamplifier output
2. Battery +9 volts
3. Boost control
4. Preamplifier input
5. 6. { Treble coil
7. 8. { Bass coil

SINGLE PICKUP GUITAR

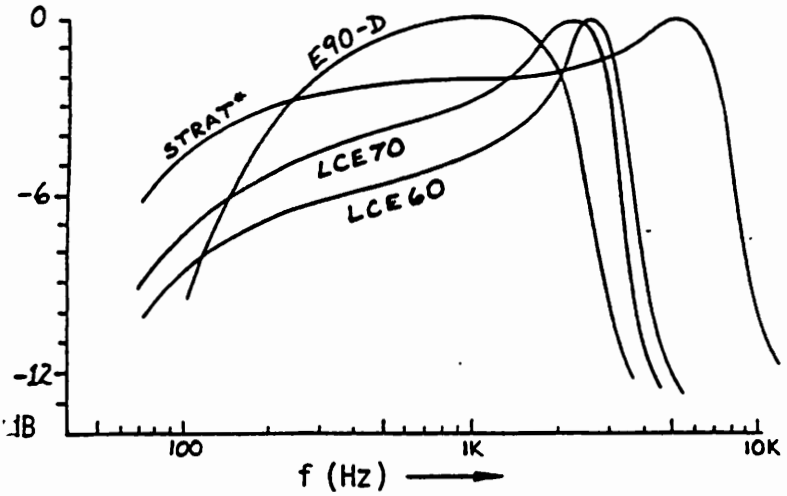


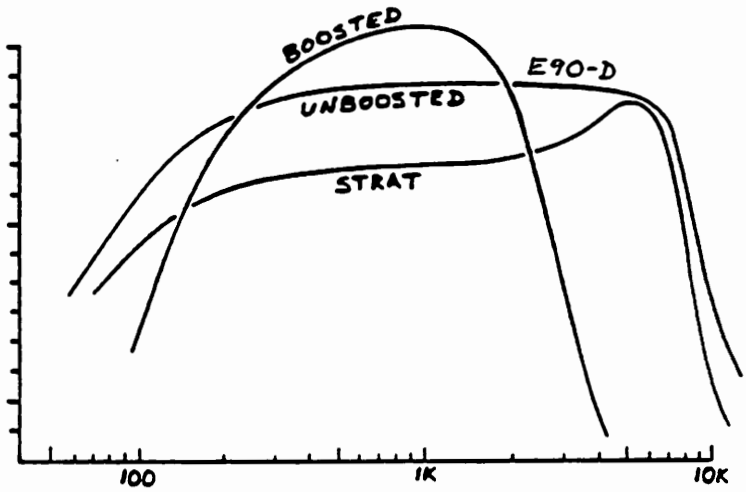
BOOSTED / UNBOOSTED MODE SWITCH



BARTOLINI GUITARS BOX 934 LIVERMORE, CALIFORNIA 94550 (415) 443-1037

E90-D Active Electronic Pickup





This active humbucking pickup is specifically designed to obtain the best distortion sound (power guitar - heavy metal) and sustain from any amplifier. The preamp can be used in the boosted mode for maximum overdrive and sustain or in the unboosted mode for sparkling clarity and definition. The shape of the frequency response curve of the E90-D in both modes is shown above in comparison with other pickups. In its unboosted mode, the output level is actually 18dB higher than that of the Strat. In the boosted mode the output level is actually 30dB higher than that of the Strat. The output of the boosted mode will be usually trimmed to about 9dB higher than the unboosted mode for best response from most amplifiers.

The first wiring diagram is intended for single pickup instruments. The 50K-ohm trim potentiometer should be initially set at mid rotation and then adjusted for best overdrive response from the amplifier.

The second wiring diagram shows the use of a 3PDT switch to select the boosted or the unboosted mode from the preamp. The .0022 mfd capacitor tunes the pickup coil resonance down to approximately 1200 Hz. The .82 mfd + 470 ohm resistor connected between the boost lead and ground, boost the preamp output approximately 12dB between 80 Hz and 1 KHz. These components also raise the output level an extra 10dB in this frequency range. This output level is much higher than is needed to drive most amplifiers to their best distortion sound. The trim potentiometer allows the pickup output to be matched to the amplifier for optimum tone and sustain.

The E90-D can be used with Tone and Volume controls ranging from 25K-ohm to 500K-ohm and requires string grounding for outstanding low noise performance. Components for midrange boost, coil tuning and level trim are included.

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