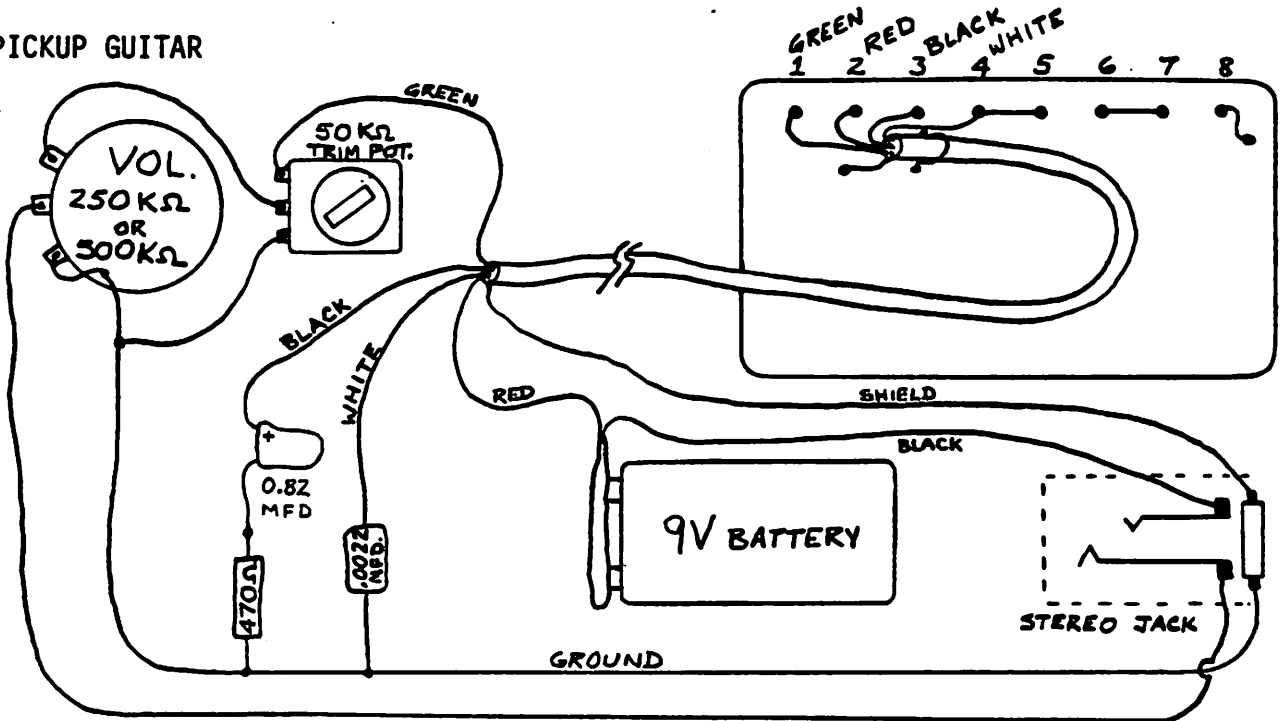


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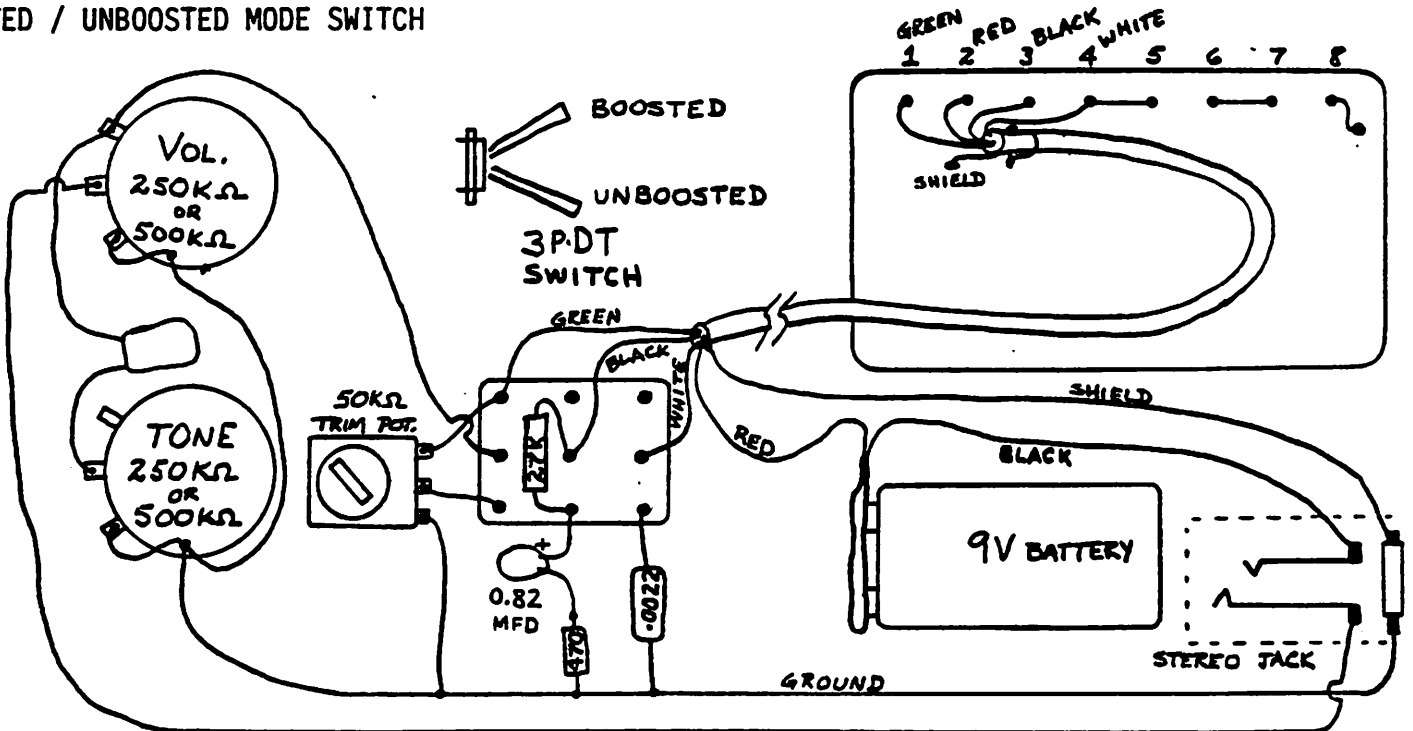
MODEL E-90 ACTIVE ELECTRONIC PICKUP

- | | |
|------------------------|---------------------|
| 1. Preamplifier output | 5. { String sensing |
| 2. Battery +9 volts | 6. { coil |
| 3. Boost control | 7. { Hum cancelling |
| 4. Preamplifier input | 8. { coil |

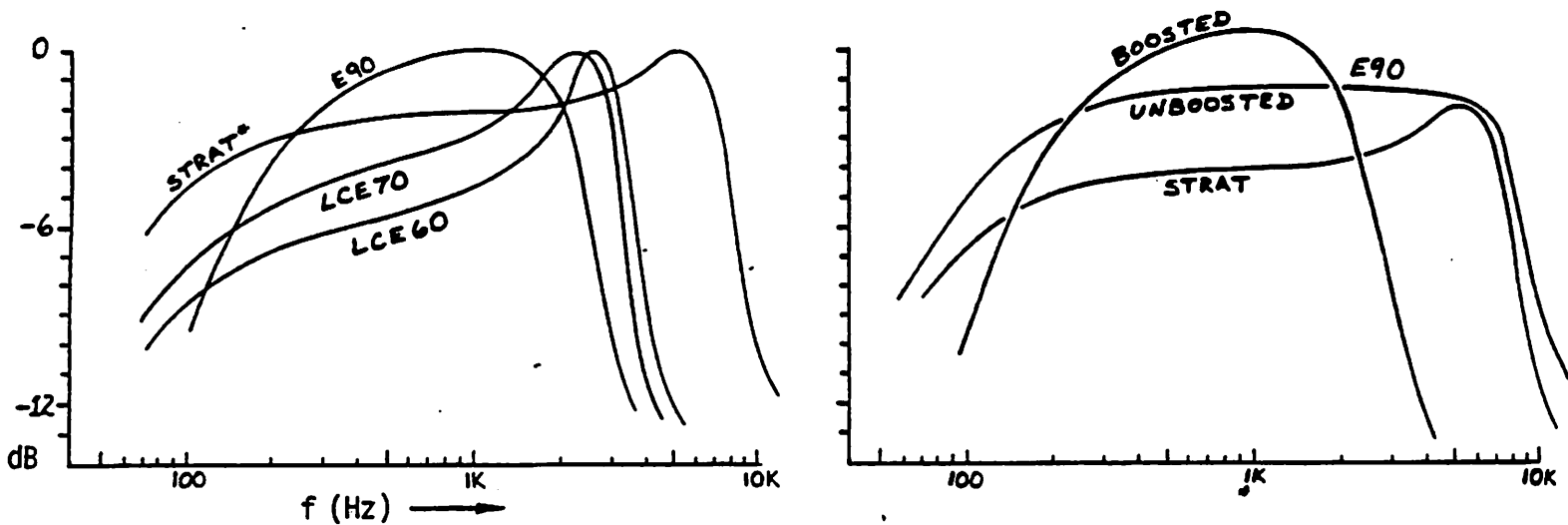
SINGLE PICKUP GUITAR



BOOSTED / UNBOOSTED MODE SWITCH



E90 Active Electronic Pickup



This pickup is specifically designed to obtain the best distortion sound (power guitar - heavy metal) from any amplifier. The sound of the E90 has the clarity and definition of a single coil with the warmth and low noise of a humbucker. 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 in both modes is shown above in comparison with other pickups. In its unboosted mode, the output level is actually 12dB higher than that of the Strat. In its boosted mode, the output level is actually 24dB 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 1 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 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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