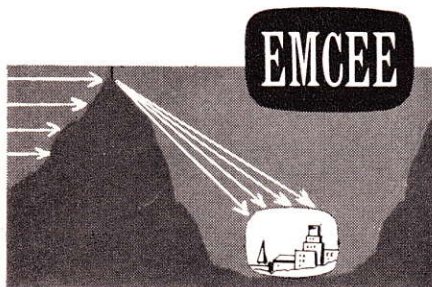


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little too much for even this purpose. That was promptly taken care of by a hum balance pot across the filaments.

The cue amplifier (Fig. 3) was the next project. With the same logic used on the program channel, we started at the end and worked backward. An AC-DC type output transformer was teamed up with a 6AK6 for maximum sensitivity. Again the ugly matching problem appeared, but this time we were ready for it. A triode-connected 6AU6 operated with a grounded grid put us in business.

The available turntables had preamplifiers with them, but the microphone was another problem. The hole left vacant in the construction of the program amplifier was filled with an EF86 and its associated components arranged in preamplifier fashion. But alas, it was too close to the output stage, and it left no doubt in our shattered ears that it was unhappy there. We tried several cures before stumbling onto the idea of using a transistor preamplifier (Fig. 4) mounted in a small metal box several feet away from the amplifier.

The only remaining problem was the 12-volt DC supply for the preamplifier. A battery was used for checking but was discarded as a permanent source of power. That shiny bargain Zener diode seemed like a good bet, but it was rated for 27 volts, and we were running out of chassis space to build any more power supplies. There was

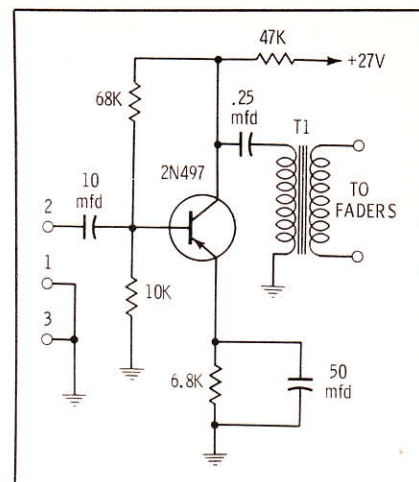


Fig. 4. Diagram of the set's preamplifier.

already a 10K bleeder resistor across the power supply, so we inserted the Zener diode in series with the ground end of the resistor and had 27 volts with almost no ripple. A Pi-section filter removed what little ripple there was, and a little more resistance in the collector circuit of the preamplifier stopped the paint from blistering on the transistor.

A few days were misplaced in the process of hooking the pieces together (Fig. 5), putting on the finishing touches, and connecting the new helpmate to existing equipment; but the entire project took only eight days.

So far everyone is happy with the new facilities, but we have yet to get the reaction of management on the expenditure. Tomorrow we present them with the total bill — \$33.49. ▲

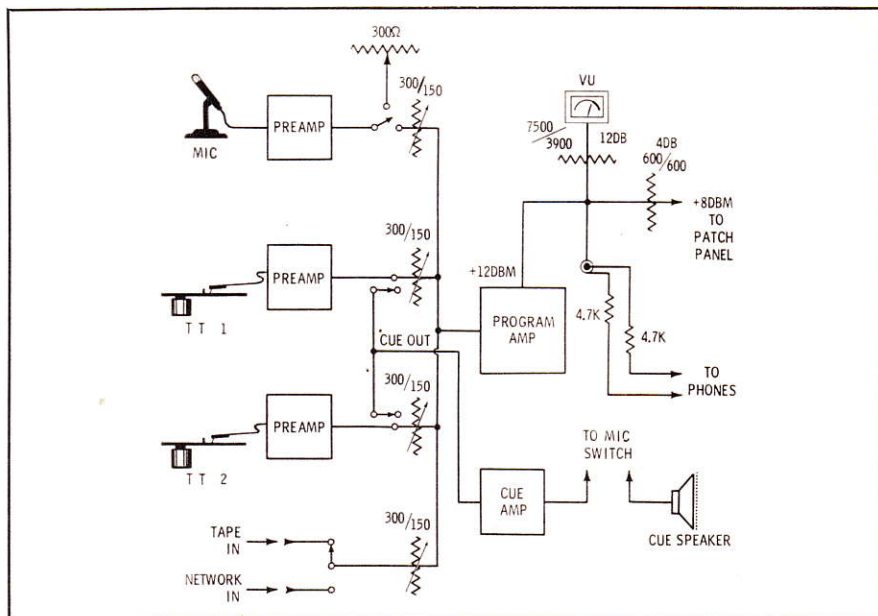


Fig. 5. Complete block diagram of the full auxiliary production system and console.