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Conversion of old YBA-1 with 5AR4 rectifier and 7027A output tubes to solid state rectifier and 6CA7 output tubes:

The old circuit (1) fits on old circuit (2) at points A B C D and E to convert the rectifier. It may be possible to fit some of the PH204's right on the old 5AR4 socket as terminal points, or, solder in a separate terminal lug strip.

The 6CA7 and the 7027A have the same tube baseing except that you will have to connect C3 pin 1 to pin 8 externally for the 6UA7. We suggest also a 1.5K 1/4W resistor in series with the G1 on pin 5 of the 6CA7 to prevent oscillation. We suggest you reduce R30 from 56K to 47K to make the no signal grid bias voltage - 38V.

Except for the transformer voltages, circuit 3 shows the amplifier converted to 6CA7's. The addition of the shock mount rubber feet will insure longer tube life.

We have included the latest schematic for reference but we do not recommend that you delete the Choke in your conversion.

Yours truly,

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