

from phase

inverter (control grid)

colors may be different

wire

in your amplifie

6098/6AR6WA Substitution for the 6L6GC

New old stock (NOS) 6L6GC tubes are becoming harder to find and more expensive to purchase. Here is an alternative to purchasing expensive NOS 6L6GC tubes yet still get that great NOS performance.

The NOS 6098/6AR6WA is a very similar audio output tube to the 6L6GC and will substitute in most situations with minor wiring change. The filament requirement for two 6098/6AR6WA tube is 2.4A (same as two KT66 tubes). This is 600mA higher than a pair of 6L6GC tubes. This extra requirement isn't a problem for most Fender amps but you may want to check with your amp's manufacturer for clarification.

Due to the extremely high voltages present in tube electronics equipment, all modifications should be performed by a qualified technician.

Note: The below descriptions apply to chassis mounted tube sockets. For printed circuit board (PCB) mounted tube sockets, the pin-to-pin changes would be the same however, the actual traces on the board would have to be cut and rerouted which is beyond the scope of this discussion.

Note: Wire color displayed here is for identification of wire relocation and not representative of the actual color of wire used in your situation.

from output transformer (plate) from phase inverter (control grid) from power supply from power supply (screen) from output transforme (plate) wire colors may be different in your amplifier filament

> Typical Fender®style wiring for 6L6GC power tube

braided wire soldered to

> Modified wiring for 6098/6AR6WA power tube

braided wire soldered to



You should find the tone of the NOS 6098/6AR6WA equal to or better than most NOS 6L6GC tubes and the reliability much better than new production tubes.

Final note, before closing everything up, please make a point to label the socket and tube complement chart (if applicable) to indicate that this tube position have been modified to use a 6098/6AR6WA tube only.

Enjoy the music.

Any questions and comments can be directed to:

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