

FT-101 & FT-200 6JS6C to 31JS6C Mod

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This mod involves replacing the 6JS6C tubes with 31JS6C tubes. The 2 are identical except for the filament voltage. The 6JS6C's use 6 volts and the 31JS6C's use 31 volts. We remove the accessory plug on the back and replace the jumper between pins 1 & 2 with the circuit shown below using a 24V HVAC transformer with a VA rating of 40VA. Wire the transformer and plug as shown, install the new tubes and neutralize per the instructions in the manual. You can let the transformer just lay behind the rig or you can hang it off the back of the rig with self tapping screws. This mod takes the 12V that feeds the 6V finals in series and steps it up to 62V for the new 31V finals. If you are wondering why it is wired as an autotransformer instead of just regular transformer. When wired as a regular transformer the voltage was only 50V so wiring it as an autotransformer adds the 12V to the 50V and gets the 62V we need. I have used variants of this mod on a few Swan rigs that use 6LQ6 tubes and have replaced them with 31LQ6 tubes with good results as well.

