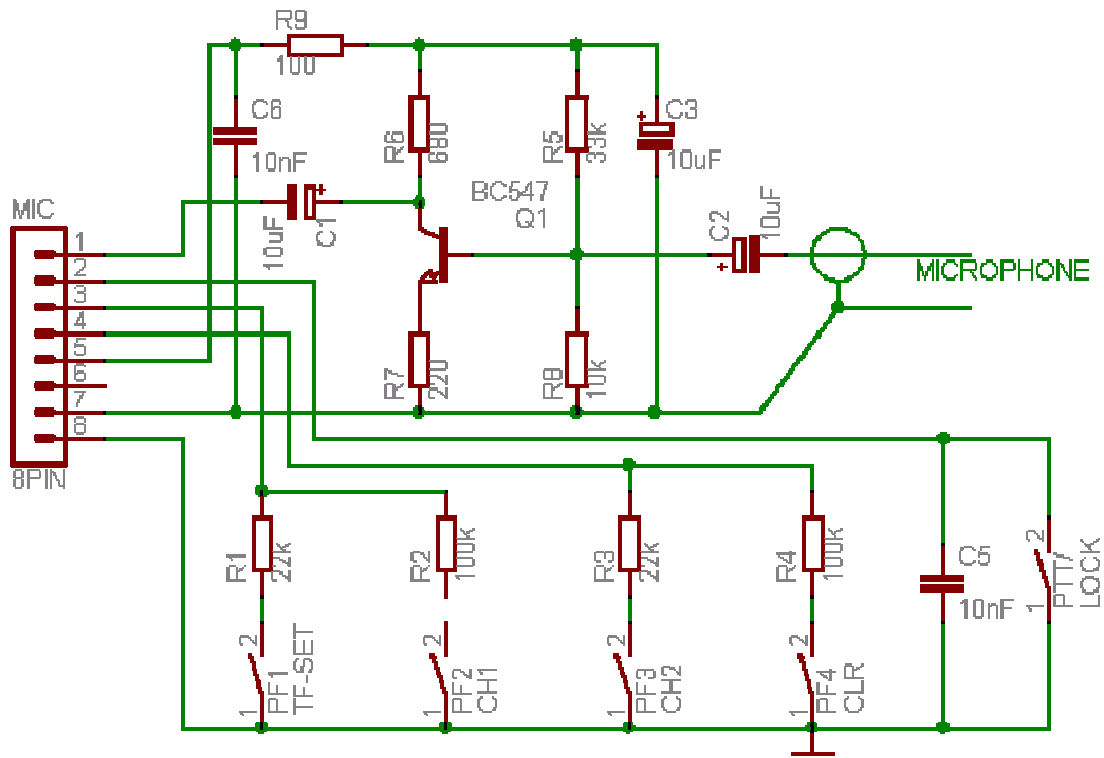


MC50 HAM CARDIOID DYNAMIC MICROPHONE

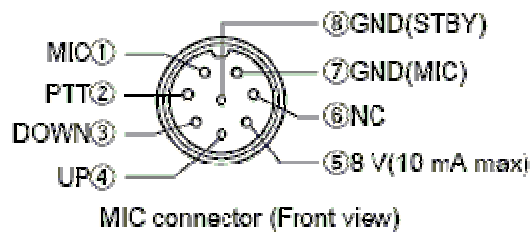
When the MC50 microphone was designed, Trio-Kenwood recommended it as "expressly for amateur radio operation as a high-performance microphone", which "will match all Trio-Kenwood Amateur Equipment". It is true, many years later, the MC50 still can be used with modern transceivers (after connector replacing). Microphone sensitivity seems to be a bit low - I made a pre-amplifier and four programmable buttons PF1-PF4 to make the MC50 more useful with the TS570.



My MC50 equipped with PF buttons.



MC50 preamplifier and PF buttons - schematic diagram.



TS570 MIC socket diagram

Pre-amplifier was built in to the microphone metal base. Has 680 ohm output resistance and $\sim 3V/V$ gain. It allows driving the TS570 to full power, when the TS570 microphone gain is set to 50%. DC supply to preamplifier (+8V) is delivered by the TS570 (pin 5 in MIC connector). **Be carefull when you are using this pin - shorting it to ground can damage some circuits of the TS570!** The preamplifier can be also powered by a 9V battery - in this case pin 5 is not used and an additional switch is necessary.

My MC50 has additional PF1-PF4 buttons, installed inside additional plastic case, placed on microphone base.

Using Menu No. 42-47 I activated PF1-PF4 functions as: [TF-SET] [CH1] [CH2] and [CLR] most useful for DX.