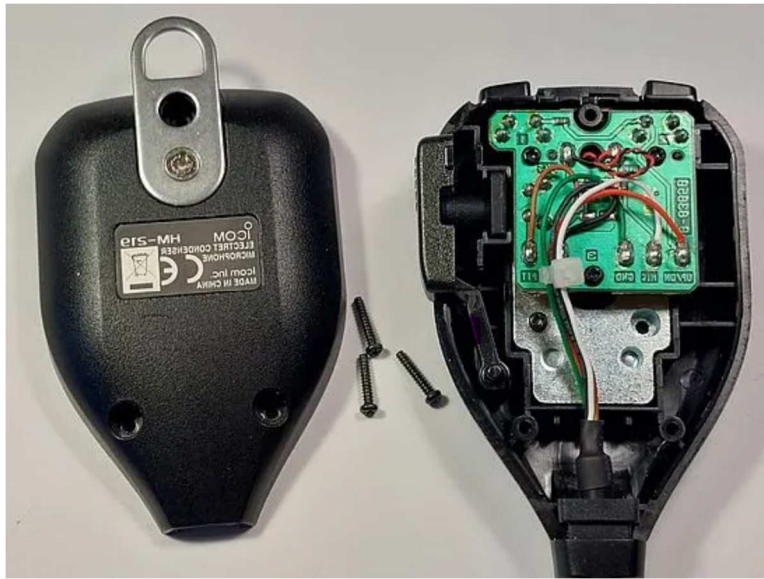


HM-219 Mic Modifications.

This modification will allow the first 2 memory channels to work, 1 and 2 using the Up and Down buttons instead of changing the frequency.



Change R3 SMD Resistor to 1k5

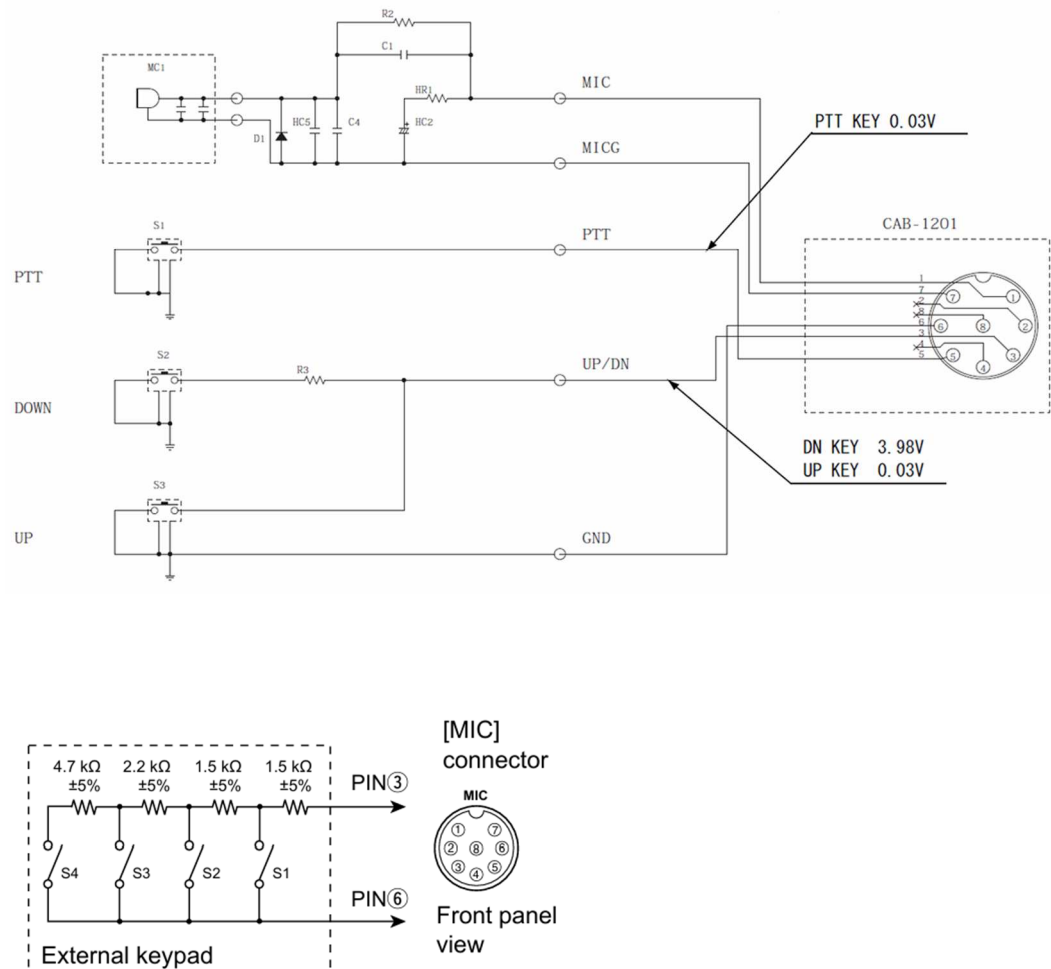
There are two ways you can do this mod.

You would cut this track here to add a SMD 1.5K resistor. You may need to carefully cut away part of the earth track so the resistor will not short out.

If you did not want to cut the track on the board to add the SMD resistor, you can unsolder the red lead (Up/Dn) and slide some heat shrink over the red wire and fit a standard 1K5 resistor in series, so trim the resistor and solder one end of the 1K5 to the pad where the red wire was and solder the red wire to the resistor and slide the heat shrink back over the resistor to prevent it from shorting.

This will now give you the first two memory channels using the up button for Memory 1 and the down button for memory 2 on the mic.

HM-219 Schematic



See Section 18-3 of the Icom IC7300 manual for more info.

The mod explained.

At the moment the up button in the microphone does not have any resistor fitted.

The down button has a series resistor 270ohm R3.

By changing the values of resistors will change the way these buttons operate.

In the microphone Pin3 will be the red wire and by adding a 1K5 resistor in series the up button will now become S1 (Resistance to earth is 1K5 when pushed).

To add the 1K5 resistor the easiest way is to remove the red wire and fit the resistor in series with the red wire.

By changing the value of R3 to 1K5 SMD the down button will become S2. (Resistance to earth is 3K when pushed)

As there are only two buttons S3 and S4 will not be used but you see the resistance increases each time they get pushed.

Once you do this modification, you will need to record your TX memory into memories 1 and 2 to operate. See Section 7 in the Icom IC-7300 manual (Mk1) on how to record voice TX memory.

This mod also works on the Mk2.

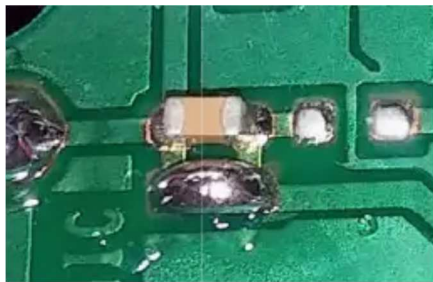
HM-219 Mic Gain Modification.

Increase the Mic gain mod.

Remove the 3 screws, locate R2 the 2k2 resistor next to a capacitor.



You can either remove the resistor and put a short across the pads, shown below



Or leave the resistor in and just put a small link across the resistor.

Once done reassemble the mic and enjoy.

Note: I found this mod online so I don't take credit but thought I would add it. I also recommend just to fit a link rather than removing components.