

ICOM IC-SM2/SM-6 Desktop microphone wiring

I have dug up some info about an old Icom desktop mic.

The IC-SM2 was produced by Icom in the late 70's, and are similar to the SM-6 desktop microphone that Icom produces today. I recently got hold of such a mic. I looked everywhere on the Internet for any info on the wiring etc. ,without finding anything. After a while I contacted Swedish Radio Supply, and they sendt me a wiring diagram and some info on how to modify it for higher output.

Roy Nordqvist at SRS said that this was nescessary because of the low output that this mic. have.

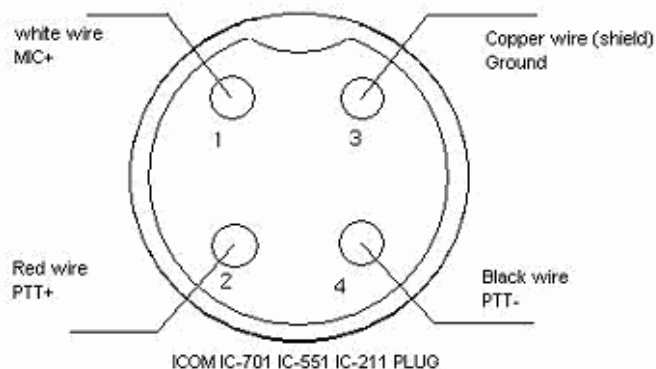
Thanks to Swedish Radio Supply for all help!

I wired it up for my Icom IC-746, after having done the modification.

It works great! It has lots of output, sounds great, but some reports that the audio tends to be quite sharp (a good DX mic).

So if someone has such a mic, please try it out on your new Icom

ICOM IC-SM 2 Mic



CONNECTION TO 8-PIN ICOM RADIOS (IC-746)

PIN 1 (MIC+): WHITE WIRE ON IC-SM2

PIN 2 (+8V): NOT CONNECTED

PIN 5 (PTT+): RED WIRE ON IC-SM2

PIN 6 (PTT-): BLACK WIRE ON IC-SM2

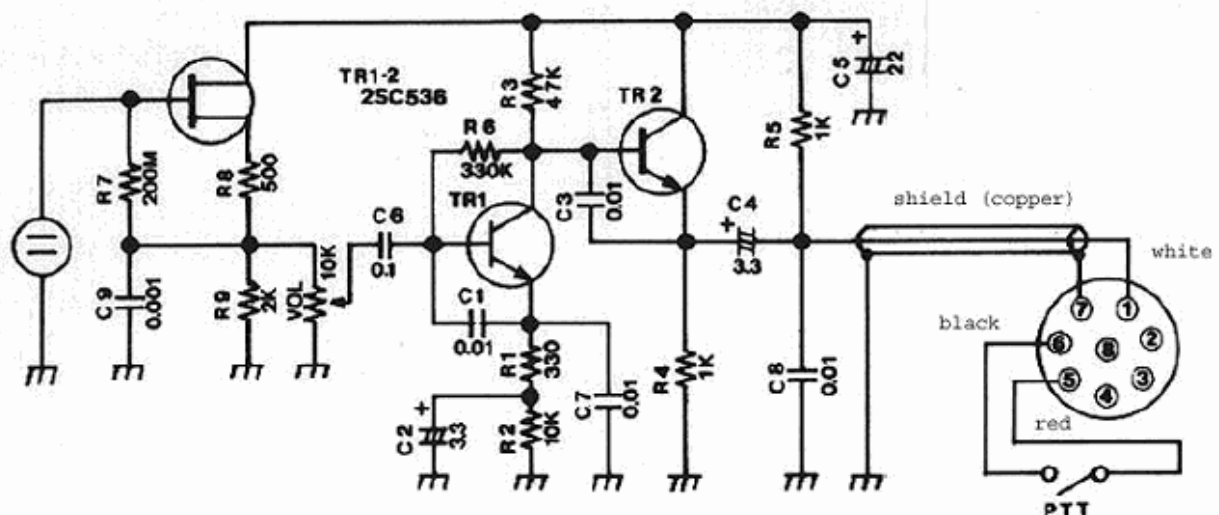
PIN 7 (GROUND): COPPER WIRE (SHIELD)

THE IC-SM 2 DESKTOP MICROPHONE IS A PREAMPLIFIED 600 ohm ELECTRET CONDENSER TYPE MICROPHONE PRODUCED BY ICOM DURING THE 70's. THIS WAS DESIGNED TO FIT ON IC-701 IC-551 AND IC-211 RADIOS

THE IC-SM 2 GETS IT'S PREAMP-CURRENT FROM THE MIC+ INPUT WIRE (WHITE) WHICH HAS A +8-12 V POTENTIAL.

THE IC-SM 2 IS A LOW OUTPUT MICROPHONE COMPARED TO THE MIC'S ICOM PRODUCES TODAY. IF YOU CONNECT IT TO A MODERN ICOM RADIO WITHOUT ANY MODIFICATIONS, YOU MIGHT GET POOR AUDIO REPORTS. TURN THE POT UNDERNEATH THE IC-SM 2 FULLY UP, AND ALSO THE RADIOS MIC GAIN.

WARNING ! CHECK YOUR RADIO MANUAL FOR THE CORRECT MICROPHONE PIN LAYOUT ON YOUR RADIO !



THIS SCHEMATICS IS TAKEN FROM THE SM-6 DESKTOP MIC, WHICH HAS A SIMILAR LAYOUT, BUT AN INCREASED OUTPUT COMPARED TO THE IC-SM 2. YOU MIGHT INCREASE THE OUTPUT BY SHORTENING RESISTOR R1(330 ohm), OR REPLACE IT WITH A LOWER VALUE RESISTOR (50 - 100 ohm)

radio.