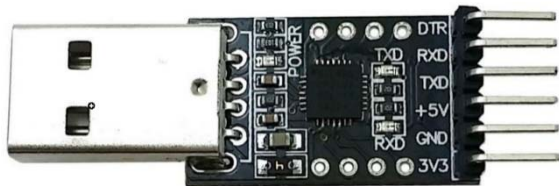


Icom IC-910H, IC-706 etc. Programming cable for CI-V

Programming these radios is done via the "DATA" jack, located on the rear panel of the radio. The jack takes a 3.5mm 2-contact (mono) audio plug.

Here is all you need to make your own programming cable using the popular CP2102 usb **UART Module** from SiLabs, which is a single-chip USB to UART Bridge IC. This USB-to-UART bridge controller provides a simple solution to update the design of the RS-232 using minimal components and PCB space. Royalty-free Virtual COM Port (VCP) allows device drivers as a COM port in PC applications.

1: CP2102 UART module (either 5 or 6 pin, see below)



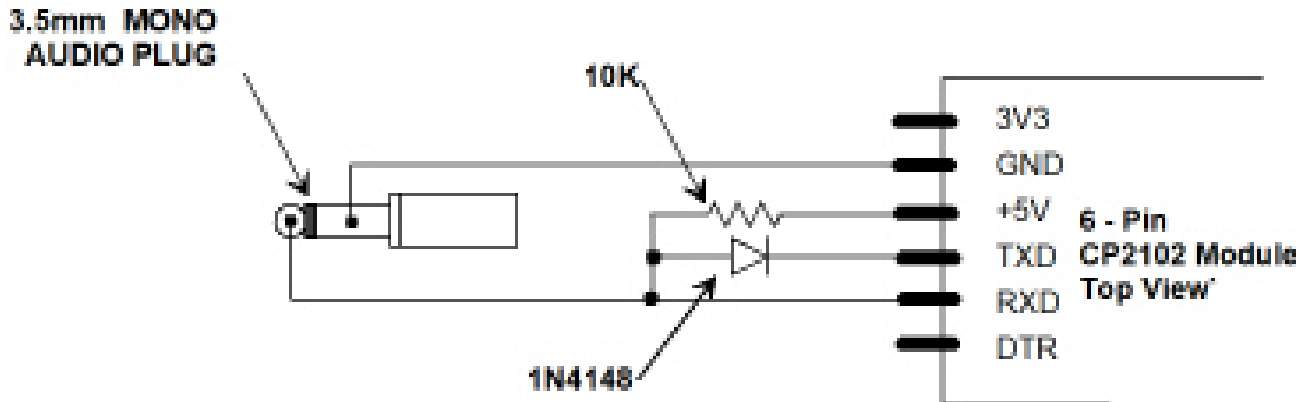
2. 3.5 mm mono plug with cable

<p>Note: Your cable may have different colour wires or even a single wire with a shield braid, as shown to the right.</p> <p>Strip off about 3/4" of the black insulation. Then separate the shield wires into a bundle and twist together.</p> <p>Finish by tinning the wire ends with solder.</p>	

3. Other Parts

- 1N4148 diode or similar, (1N914 etc.)
- 10K ohm resistor 1/4 .or 1/8 watt 5%
- Heat-shrink tubing, clear, 1" ID

4. Schematic



5.0 Assembly

With care, the diode, 10K resistor and the cable connections can be made right at the pins of the CP2102 module. See photo below.

I used a short piece of clear 1" ID heat-shrink tubing to protect the assembly.

For support of the cable, I glued a short piece of a wooden coffee stir stick to the bottom of the CP2102 module and extended it under the cable. (just visible through the heat-shrink tubing.

