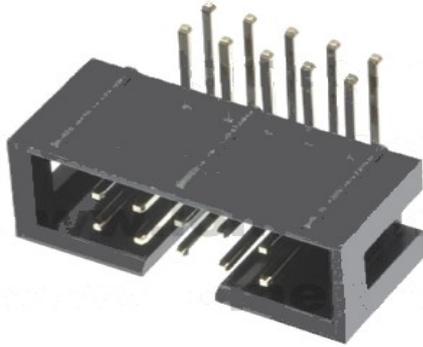


Everlasting solution for JTAGICE MKII broken cable

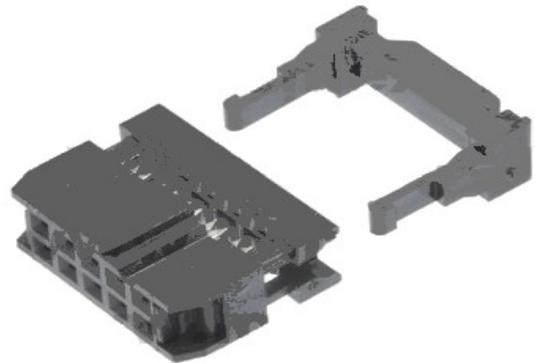
As all of you know life is based on Murphy's law. My MKII cable has broken on Friday afternoon. Browsing the internet you hardly find replacement at all, especially not on a weekend. But I have decided I will resist Murphy and at last I won.

If you are interested in my solution, all you need is a few cheap connectors, a piece of 10 pole ribbon cable and two hours work.

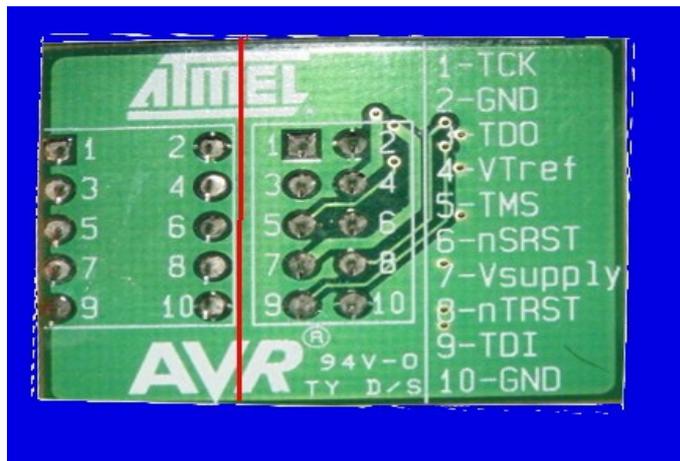
1 piece of male connector



2 pieces of female connector



First take the small board at the end of ribbon cable. Cut along the red line.



The left side with green connector is not needed any more. If you used this connector, you have to forget it and think of the gray piece in the future.

However the next step is to carefully replace the gray connector with the male connector shown above. Holes for pins are compatible, but numbering is different. This time don't worry about it, it will be solved later.

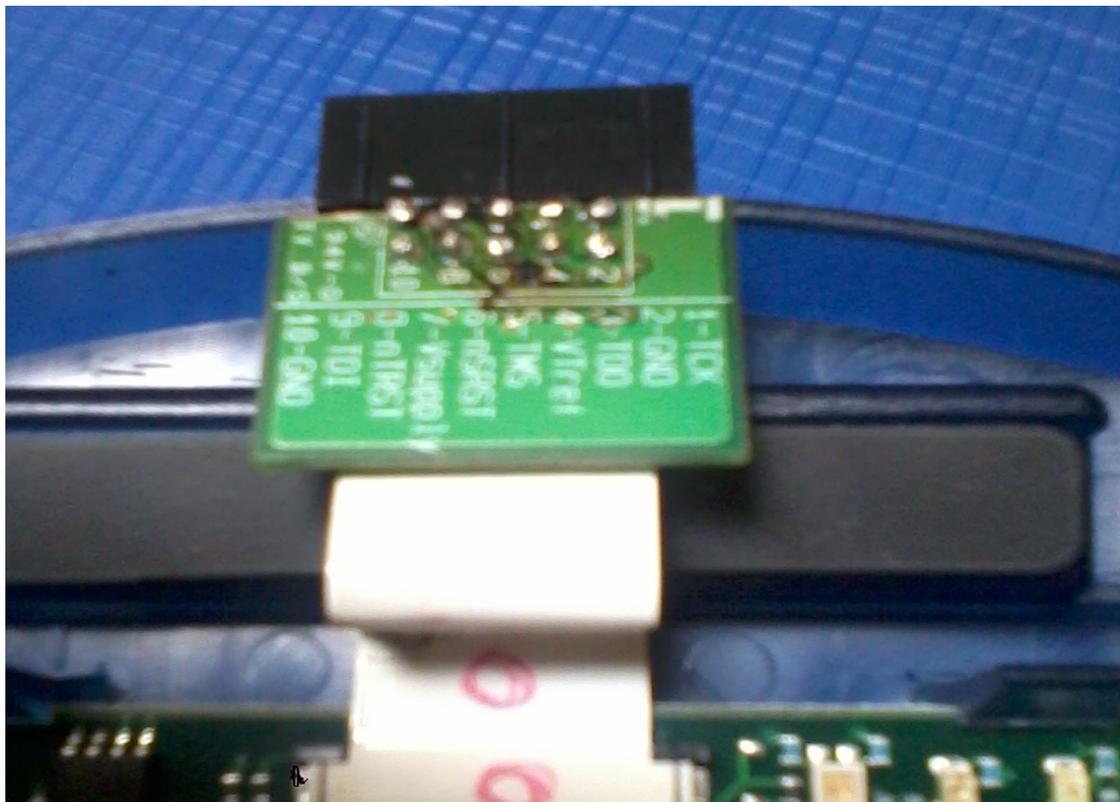
Cut a 2 inches long piece of the original ribbon cable. It's a good idea to keep part of the originally connected to the small board. Clean the other side from isolation by using a sharp blade. Scrape it on a hard surface.

Be careful! The cleaned area must be on the opposite sides of the two ends!

If you are as lazy as I am, you clean up the cable only partly as shown in the picture below. You can do it because most of the 30 lines are not used.

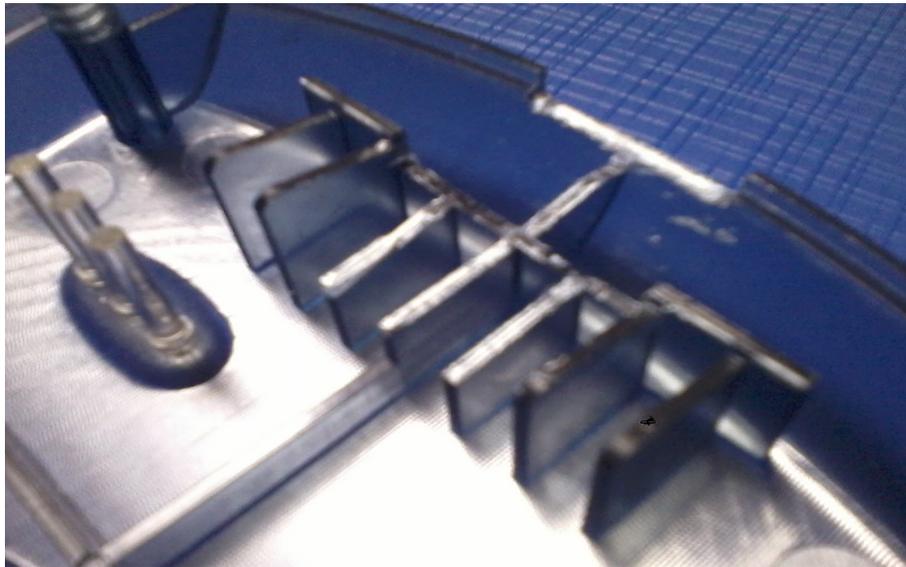


Remove the yellow plastic from the broken side of the cable and put to the opposite side of the piece you have just scaped. Connect it to the main board. Carefully arrange a tubby form as shown below.



Cut appropriate slot for your connector into the lower part of the case. The slot should be cut to arrange small board horizontally. The rubber ribbon which is originally used to fix the flat cable will be used to fix small board in place.

Cut a slot into upper side of case. Remove part of ribs as shown below.



Be careful when remove part of ribs. The height should be trimmed to be proper size to keep small board in place while the case is closed. Don't forget to put back the rubber ribbon to this side, too.

Here is the result.



It's time to worry about changed pinout. Comparing the resulted pinout to the expected one you find odd and even pins are changed. To transform it back you can make a converter cable by using two female connectors and a piece of common ribbon cable. One of the connectors is normally fixed. Vent other side of cable about one inch long to compose five pairs from the 10 wires. Swap each pair and fix the other female connector keeping the pairs swapped. You have got back the same shape and pinout you had before at gray connector.



Transferring fragile ribbon cable inside the case you got a less sensitive construction. Enjoy!

If you have any question, write to:

istvan.retaller@gmail.com

or

info@evoran.hu