

**IntelliVision**

MATTEL ELECTRONICS

**STEP-BY-STEP INSTALLATION GUIDE TO  
COMPOSITE VIDEO OUT MODIFICATION**

INTELLIVISION II MODEL NO. 5872

## Disclaimer:

This mod has been carefully designed and manufactured. It has proved to work. To my knowledge, it does not harm your system.

Nevertheless, I cannot be held responsible for any damage of your console (and yourself), when you install it. You open and modify your Intellivision at your own risk. Please make sure that your console is not connected to any power source whenever the cover is removed.

Study all information given in this installation guide about how to install the mod in the video game system carefully *before* you proceed. If there is anything not absolutely clear to you about this process, do not install the mod.

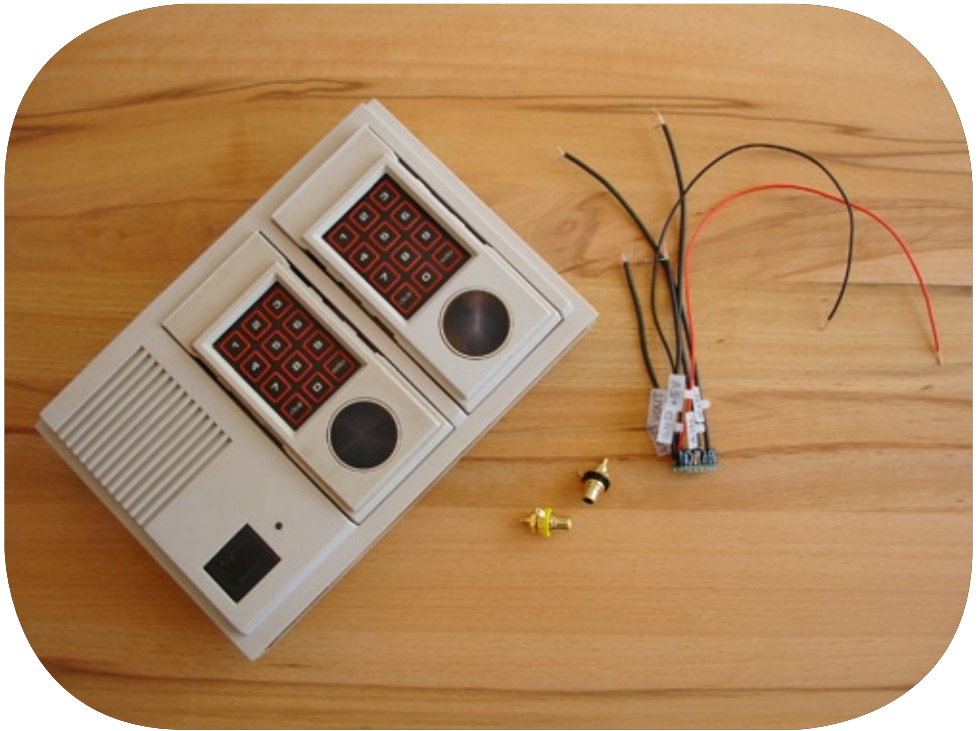
Many thanks to David Harley and Grant Ferey for the revision of the guides. The layout design was made by Franco Ricciardi. Thanks to Joe Zbiciak and Tim Lindner for creating the original design of this modification.

Feel free to use all pictures and information for any Intellivision related purpose, but please indicate its origin.

Send your questions, comments and suggestions to:  
[intellivision@oliver-puschatzki.de](mailto:intellivision@oliver-puschatzki.de)

-Oliver Puschatzki (october 2006)

Make sure that you have your Intv2 and modification board and a well lit work area. You will require approximately 45 minutes to complete this modification. Cable length fits either Intv 1 and Intv 2 consoles. If the cables seem to be too long for your console and prevent the mod from fitting easily into it, cut them down to the size you need.



This is what you need:



- a) A drill
- b) A drill bit
- c) A soldering iron
- d) Solder wire
- e) A Phillips screwdriver

Detach the controllers:



Remove the two screws from the bottom of the console.



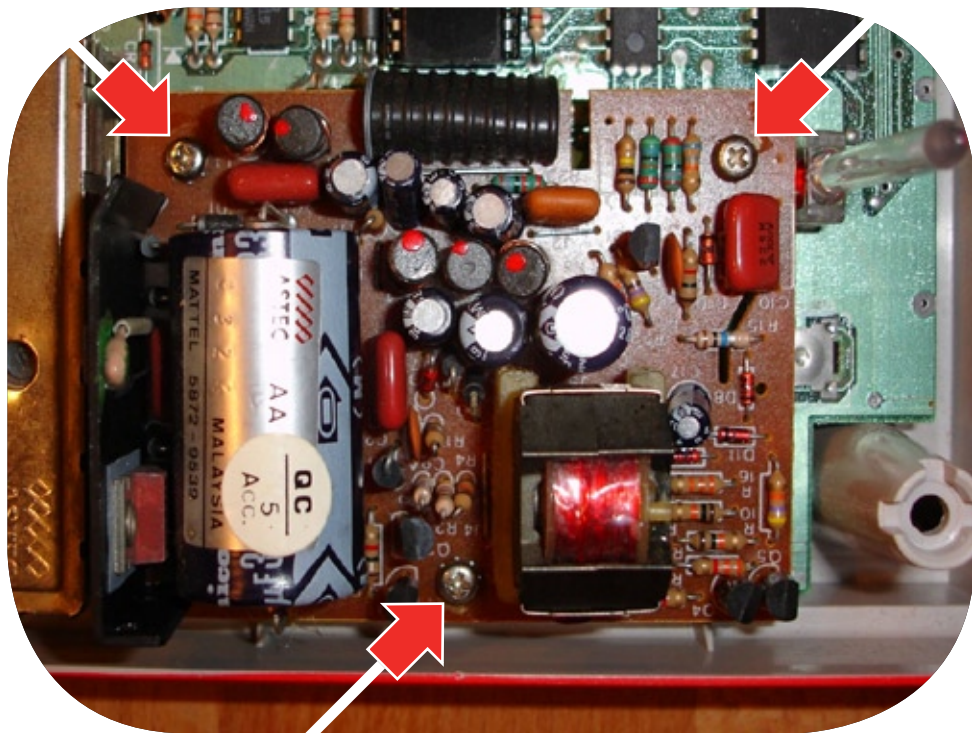
Remove the top half of the case. There are hinges that hold the rear together and detach when the cover is angled back.





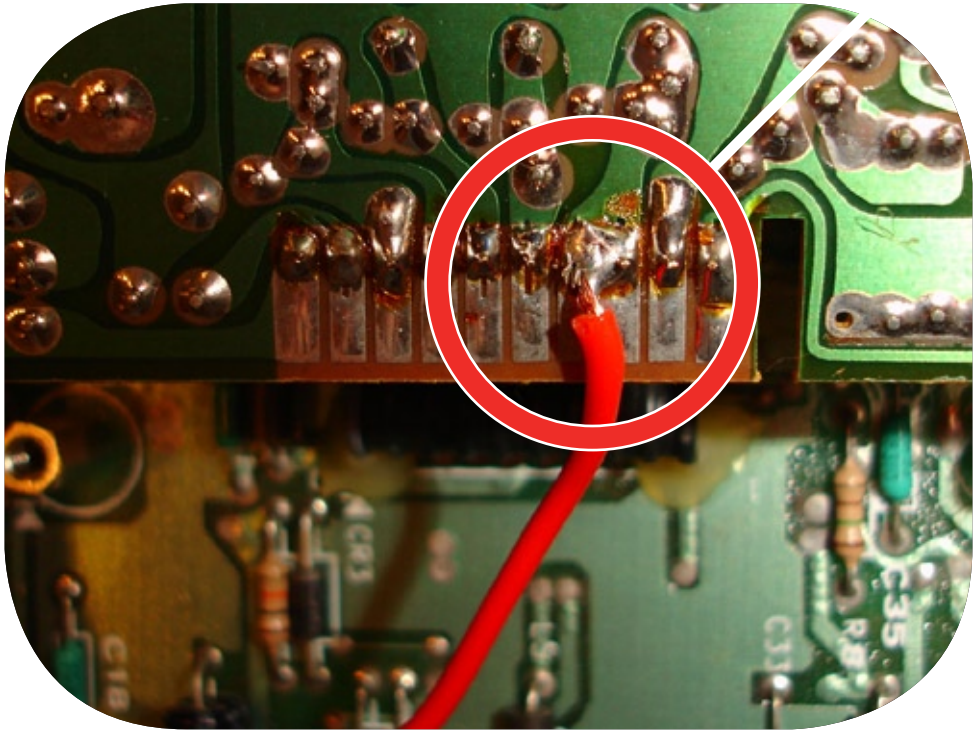
## STEP 4

Locate the power supply and unscrew all three screws. Turn the PCB upside down.



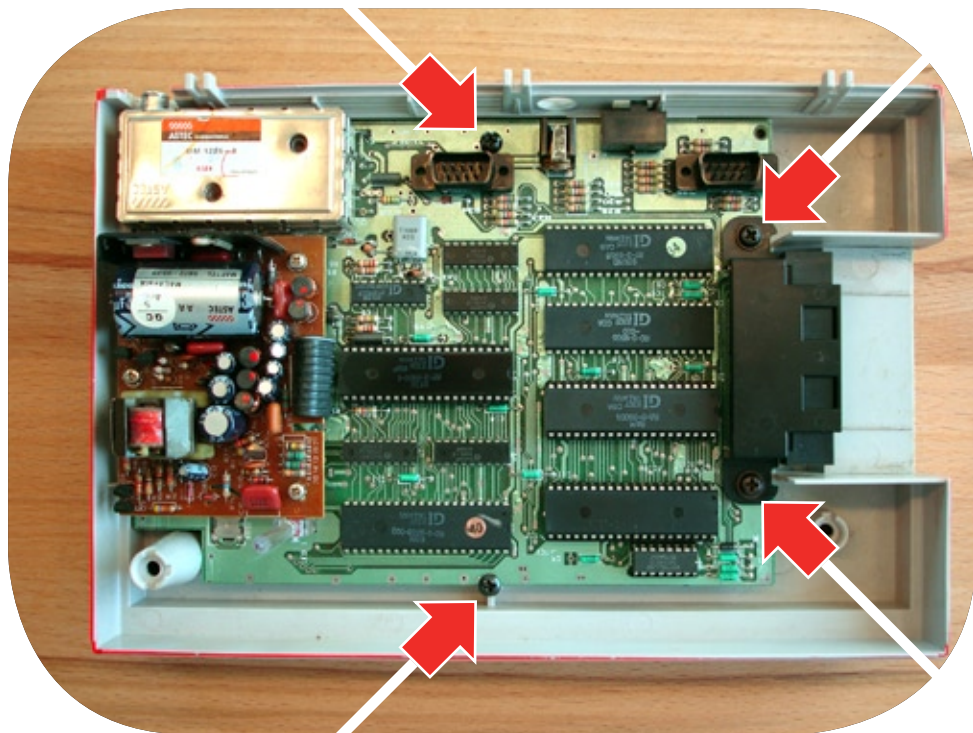


Solder the red wire „+5V“ from the mod to the power supply PCB as shown in the picture. You should attach the wire to the third soldering point to the left of the notch. The correct soldering point is wider than the others:

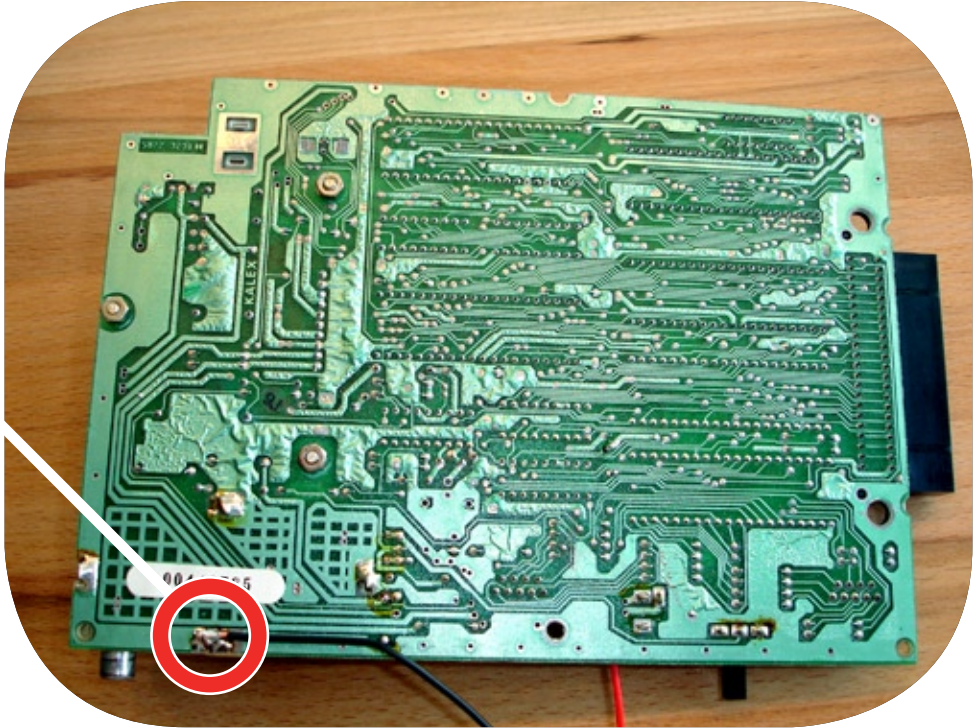


## STEP 5

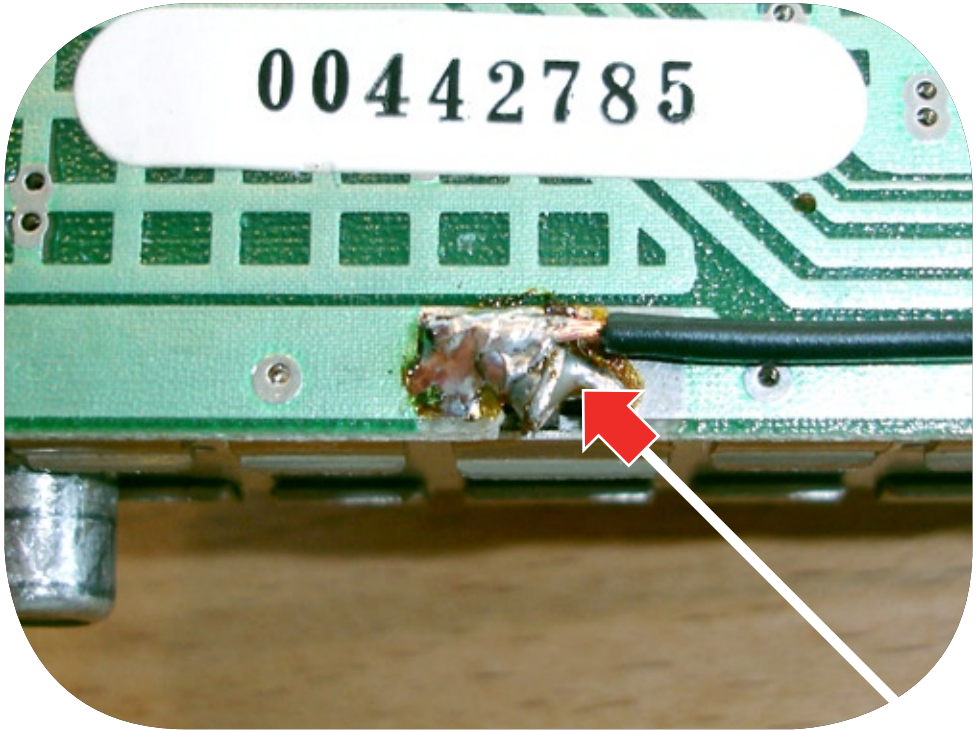
Unscrew all four screws inside the Intellivision and take the PCB out. Turn it upside down.



Solder the black wire „GND“ from the mod to the backside of the PCB.

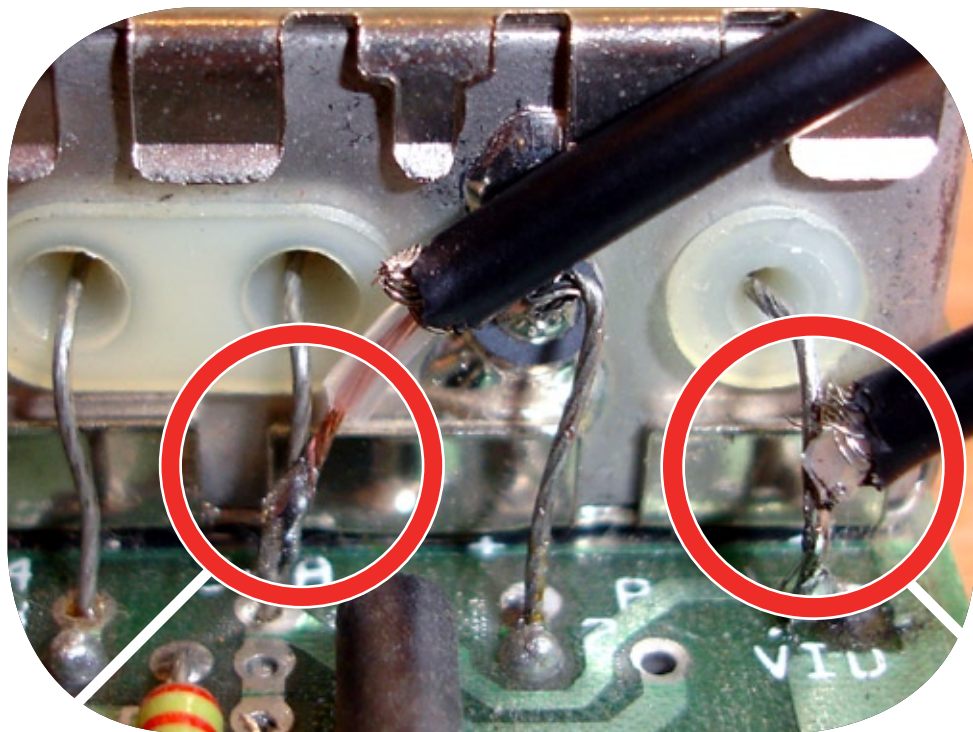


Take care to ensure that the wire is soldered to the correct position:





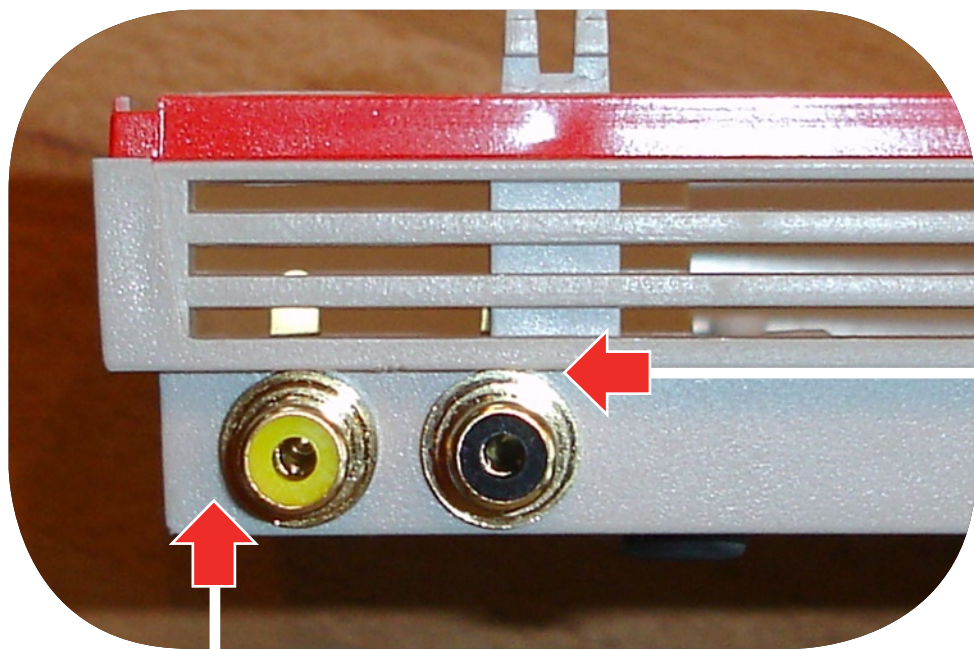
Solder the wire „V IN“ from the mod to the right wire of the RF modulator as shown in the picture. Solder the „A IN“ wire from the mod to the second wire from the left of the RF modulator.



Drill the holes in the housing for the RCA connectors.

\*\*\* WARNING \*\*\* The holes needs to be precisely centered as there will be little space remaining above and beneath the holes. Be sure to use an appropriately sized drill. If you are unsure which size bit is correct, use a smaller one first.

\*\*\*Note\*\*\* Your mod might be delivered with three RCA jacks. It is recommended not to use three RCA jacks with an INTV II console. You will find a positioning device on page 17 of this guide to help you finding the right position for two RCA connectors.



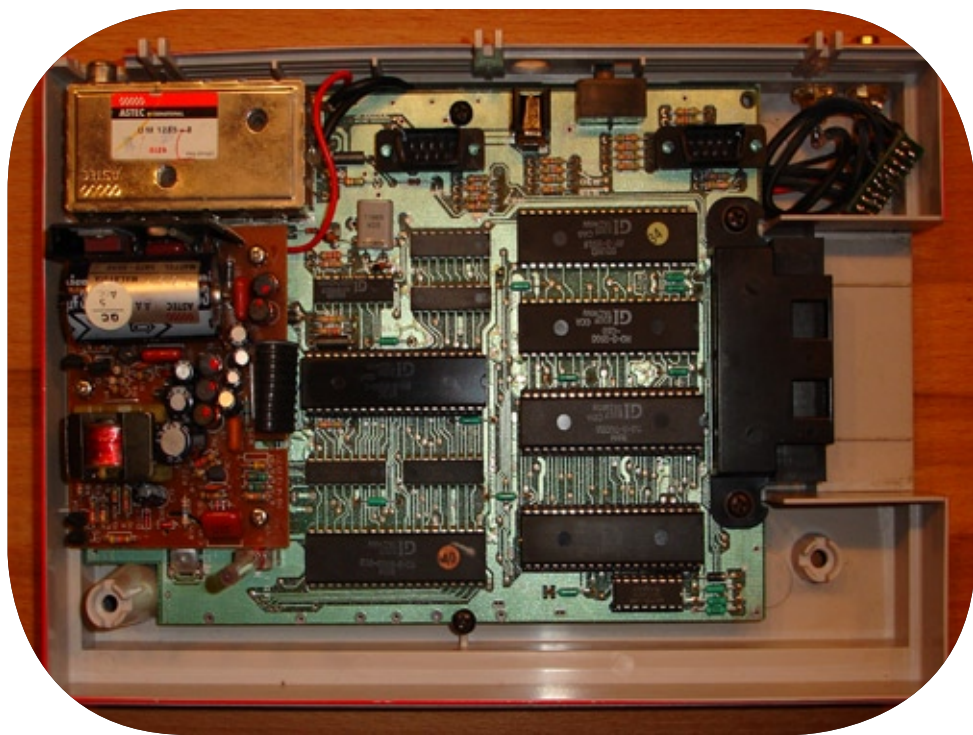
Tighten the RCA socket locking nuts. Solder wire „V OUT“ to the yellow RCA connector and „A OUT“ to the black RCA connector. Attach the wires as shown in the picture.





## STEP 10

Place the cables under the Intv PCB and put the the Intv PCB back inside the chassis. Place the mod board in the open area next to the composite connectors. Tighten the four screws that hold the Intv PCB down.



Return the cover by angling it so the two rear hinges engage. Close the cover down gently and tighten the two screws. Attach the controllers.



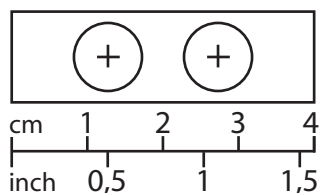
Congratulations! You have completed installing the Intellivision Video Modification.

**\*\* ALWAYS \*\*** make sure you have the video wire connected to the **YELLOW** composite jack. You could cause damage to your TV if you have the wires reversed.



Use the positioning device shown below to find the correct position for the RCA connectors.

Print the graphics at full size and check whether the scale is correct using a ruler. Attach the positioning device to the housing of your console using an adhesive tape and puncture the middle of the crosses with a needle. This is where the holes should be drilled.



This installation guide is subject to change without notice.