

List of Known Problems of Modular Starterkits

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History

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08.10.2003	AG	1.0	First release

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Known problems of the Modular Starterkits

Oct 2003

I1:
Video signal amplifier

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Please be aware, that this Board has following restrictions / functionality limitations:

Analog VGA-Output at connector JP507 is limited to 0.25 V_{peak} at 75-Ohm termination. For increasing the brightness on analog displays the circuit given by picture 1 is recommended. In addition to this, the board internal termination resistors R210, R211, R212 may be removed by the customer, to increase the video signal amplitude.

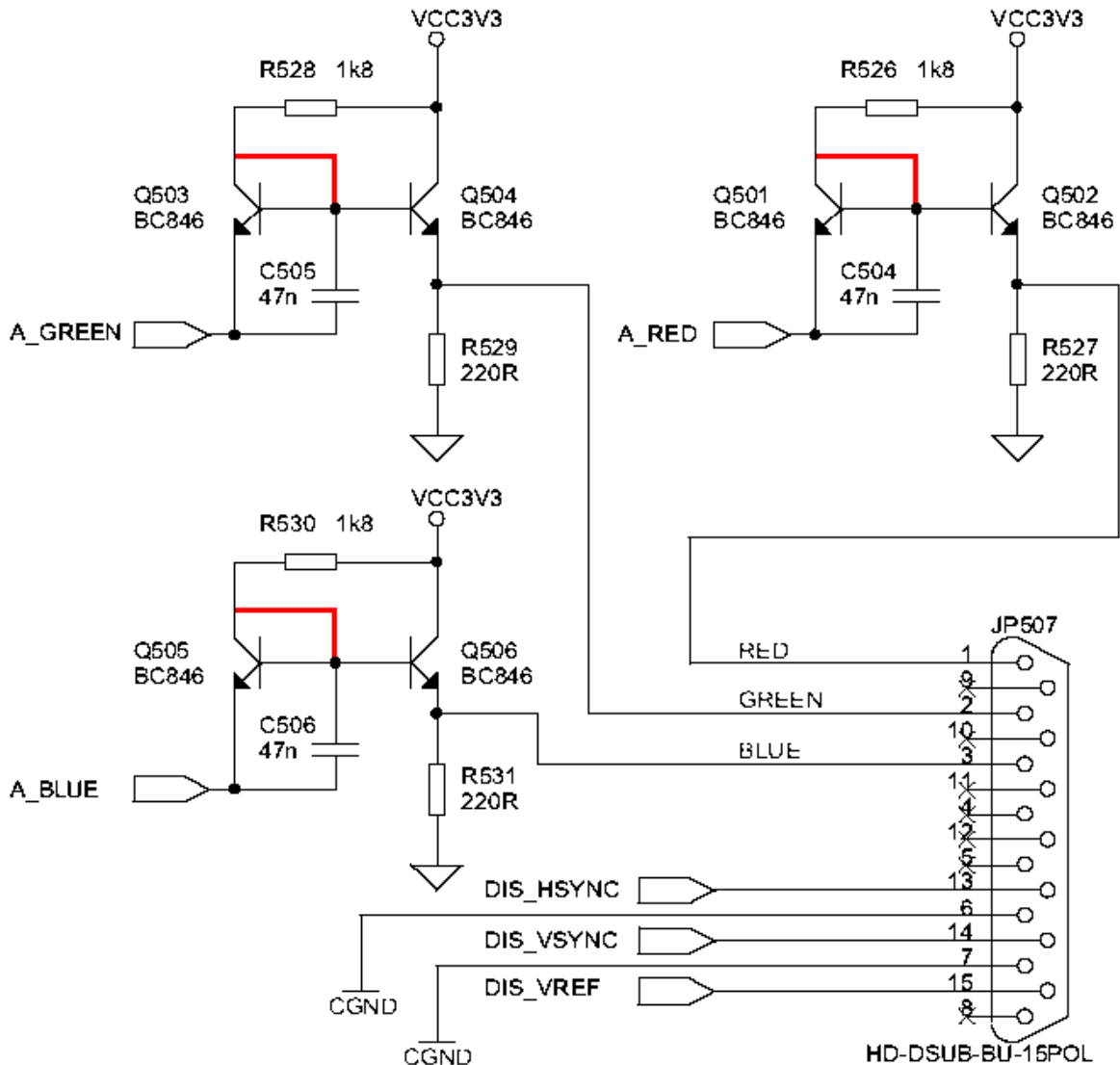


Figure 1: additional connection for video signal amplifier

I2:

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Connection for S-video input signal

There is a mistake in board design if you want to use the MINI-DIN-4-POL connector for S-Video input. The video input with the BNC connector is correctly attached to the Video Input Processor SAA7111 from Philips. The SAA7111 input signal SAA_COMP_in for BNC connector is AI12. The used initialisation for SAA7111 is mode '1'. All our video demos work with this mode '1'.

The two lines 3 and 4 on the MINI-DIN plug are wrongly connected.

The pin allocation for S-Video is correct as:

S-Video



4 PIN MINI-DIN FEMALE

Pin	Name	Description
1	GND	Ground (Y)
2	GND	Ground (C)
3	Y	Intensity (Luminance)
4	C	Color (Chrominance)

Figure 2: S-Video connector

The initialisation for S-Video is mode '6'. The internal connection in the SAA7111 is show below. The chrominance signal must be connect to AI21 and the luminance signal to AI11. Additionally, the chrominance trap bypass bit must be set in the initialisation of SAA7111 (subaddress 09, bit D7 = '1').

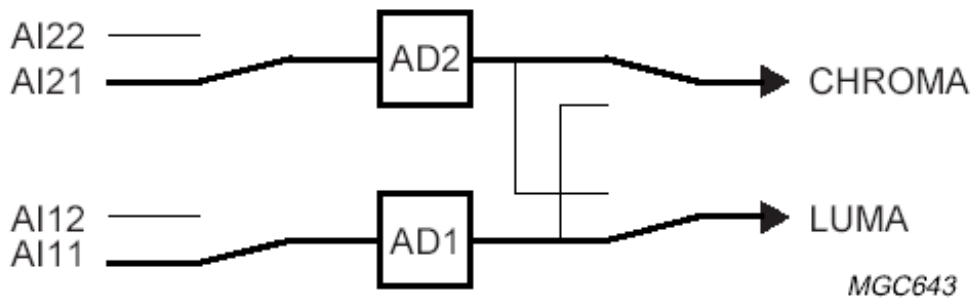


Figure 3: Philips SAA7111 mode 6

On our Jasmine-Subboard are the signal MINI-DIN-JP309 [3] (luminance) connected to AI21 (chrominance) and the signal MINI-DIN-JP309 [4] (chrominance) connected to AI11 (luminance).

The two wires must be exchanged on our Jasmine- and Scarlet-Subboard for a correct functionality (see fig. 4).

MINI-DIN JP309 [3] → AI11 – luminance
MINI-DIN JP309 [4] → AI21 – chrominance

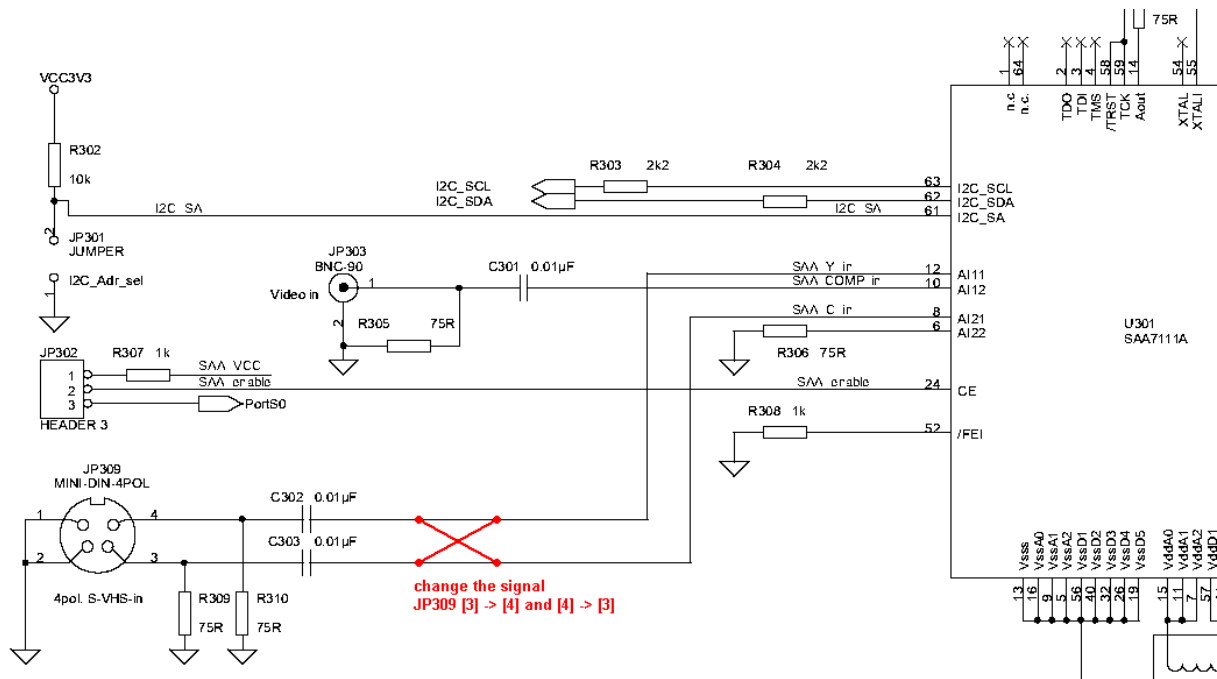


Figure 4: Luminance and Chrominance signal change

I3:
External interrupts INTX0 and INTX1

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The user can activate the interrupts INTX0 and INTX1 via buttons on the modular starterkit "CREMSON-STARTERKIT-CPU".
If the expansion board "ADA-91362-91369-RAM" is used in combination with "CREMSON-STARTERKIT-CPU" the interrupts does not work correctly.

There is a cross talk on the signals of INTX0 and INTX1, that means pressing button USER_0 activates INTX1 and vice versa.

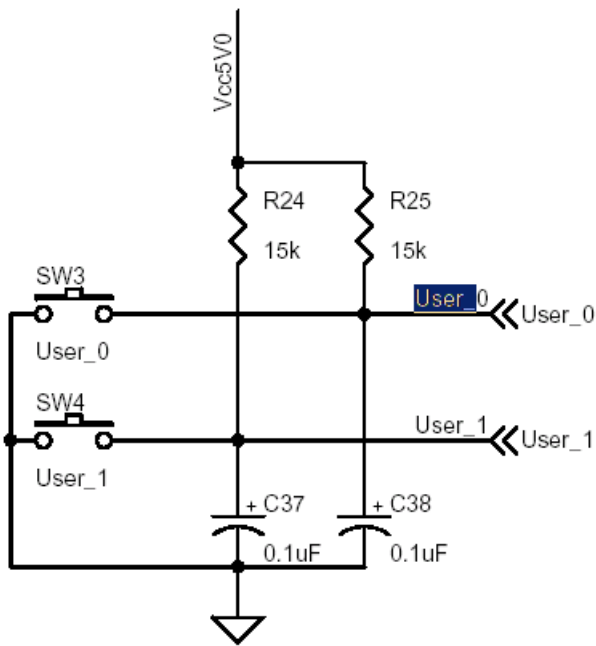


Figure 2 current connection of buttons user_0 and user_1 at the board CREMSON-STARTERKIT-CPU

This problem can be solved, if an resistor is connected between the capacitors and GND.

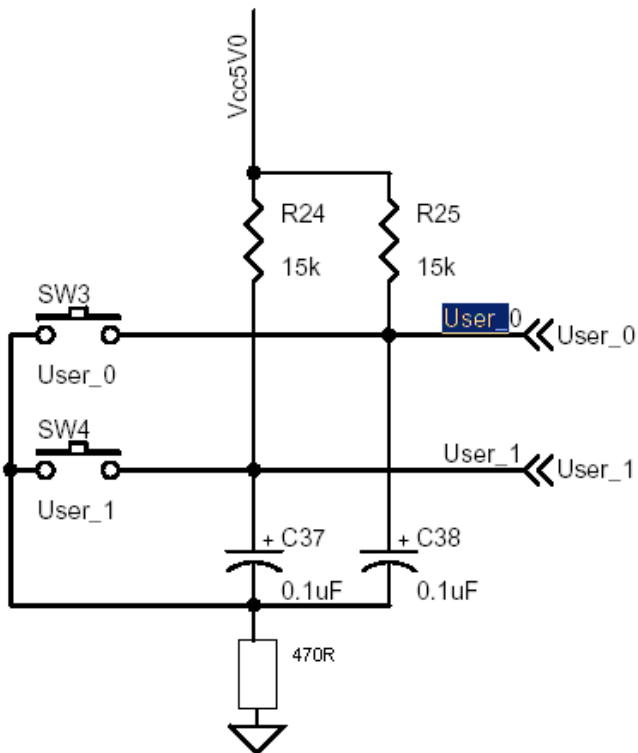


Figure 3 resistor serial between the capacitors and GND