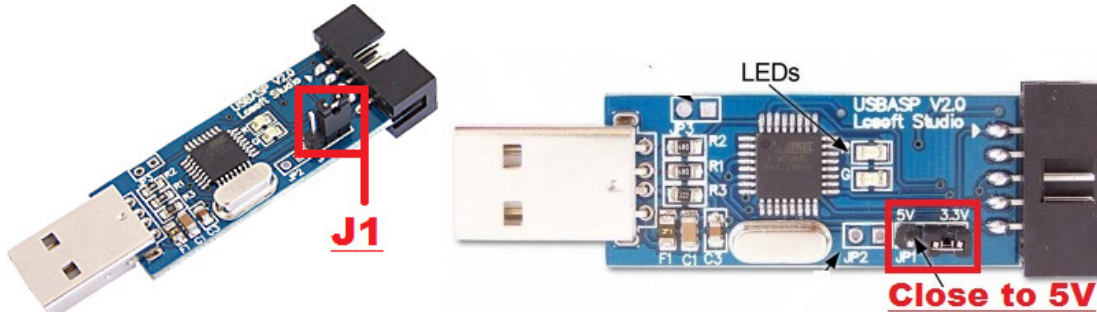


REPROGRAM VCDs WITH USBASP PROGRAMMER

BY FANTOMEL

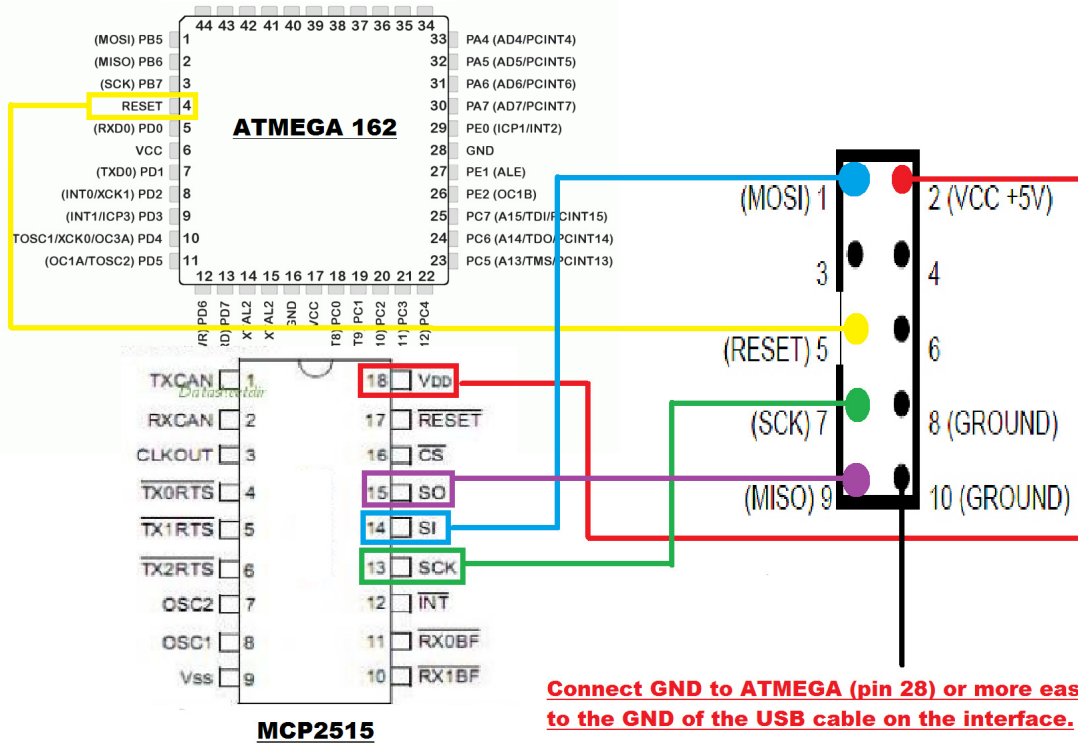
A. CONNECTION TO INTERFACE AND COMPUTER

1. Close jumper **J1** or **JP1** on USBASP to establish 5V power.



2. Wire connection to programmer:

INTERFACE TO USBASP CONNECTION

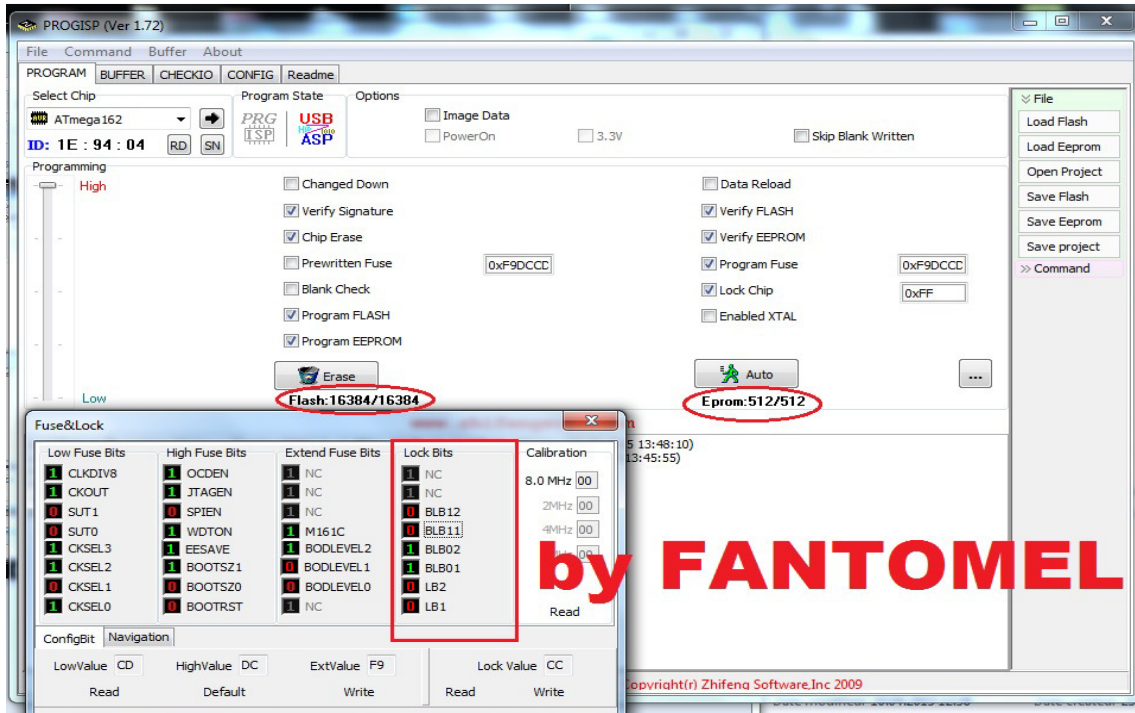


3. Connect programmer to USB and let it install drivers.

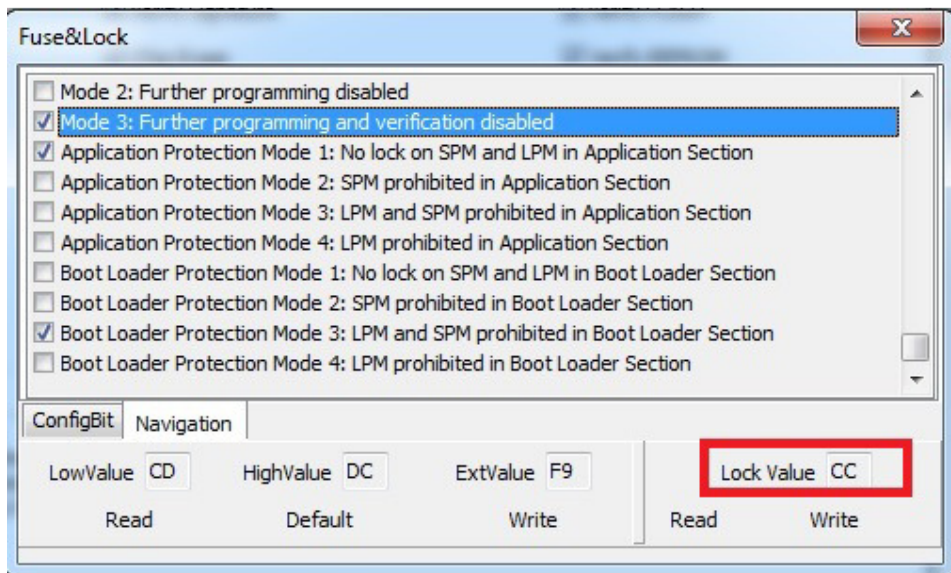
- a) If you have a good interface, led will become green and you are **OK**, if not then you did not wire it up ok, check connections.
- b) If you have an erased interface then you must check if connection is ok or not. To do that open program PROGISP included in the pack and push the **RD button**.
If you receive an error message then check wires, if not then you are

B. TESTING CONNECTION AND SEE IF ALL IS OK

1. OPEN PROGISP 1.72 MODDED
2. SELECT CHIP ATMEGA162
3. LOAD FLASH - YOU WILL SEE IN PROGRAM BELLOW BUTTON ERASE THAT 0/16384 HAS CHANGED IN Flash: 16384/16384
4. LOAD EEPROM - YOU WILL SEE IN PROGRAM THAT BELLOW AUTO BUTTON VALUE HAS CHANGED FROM 0/512 IN Eprom:512/512
5. CLICK ON FIELD Lock Chip where you have value 0xCC and change bits as in picture bellow(hw 44 model of fuses, for hw46 look on next page):



6. PUSH BUTTON X on windows Fuse&Lock and you will see that value in main program has changed from 0xFF into 0xCC



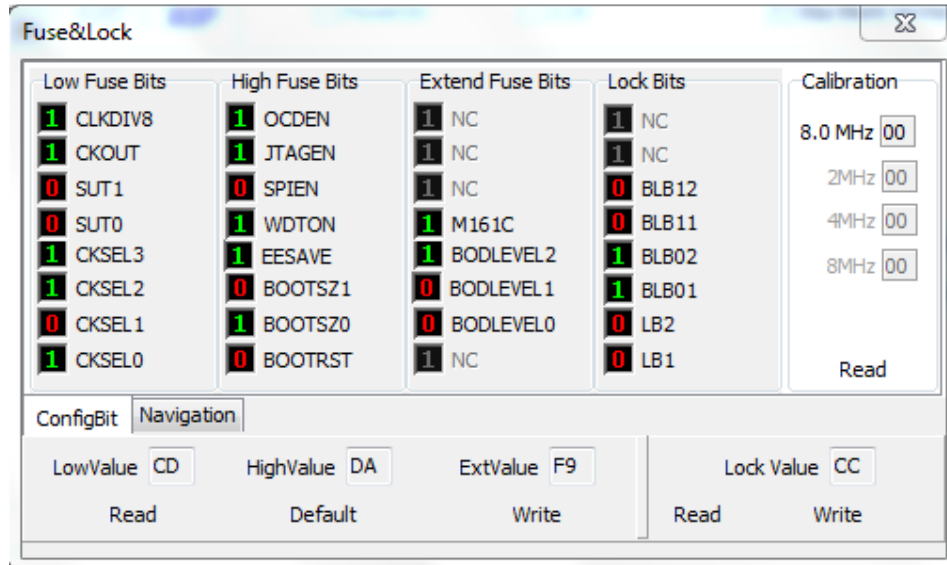
7. CHECK that you have all fields as in picture checked: Verified Signature;Erase Chip; Program Flash; Program EEPROM; Verify Flash; Verify EEPROM ; Program Fuse; Lock Chip.

DOUBLE CHECK THAT YOU HAVE PROGRAM FUSES:

0XF9DCCD FOR HW 44 OR

0XF9DACD FOR HW 46

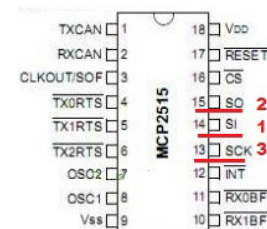
AND LOCKCHIP 0XCC



HW46

BE SURE YOU HAVE CONNECTED CORRECT WIRES TO MISO,MOSI,SKC,RST,GND AND THAT YOU HAVE 12V ON YOUR INTERFACE.

Pin 1 (MOSI) on Atmega chip, or Pin 14 of the MCP2515
Pin 2 (MISO) on Atmega chip, or Pin 15 or the MCP2515
Pin 3 (SKC) on Atmega chip, or Pin 13 of the MCP2515
Pin 4 (RST) on Atmega chip



8. PUSH AUTO BUTTON AND YOUR INTERFACE WILL BE REPROGRAMMED