## ArduiBox Open

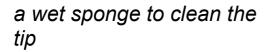
construction manual

Rev.	Date	Description
Α	2015-11-30	First release (translated from German document)

Construction manual ArduiBox Rev A

Tools:

agregulated soldering iron (25..40W) with small tip





Side cutting pliers







Construction manual ArduiBox Rev A

#### Needle nose pliers



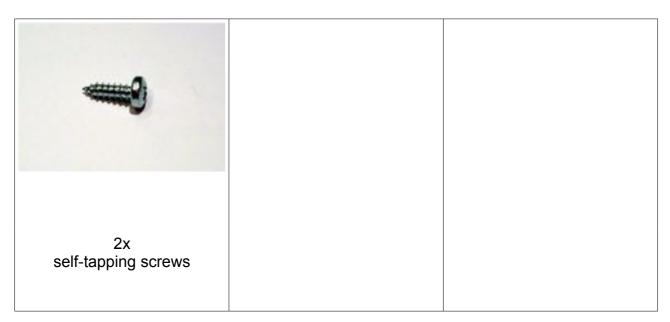
Medium cross slot screwdriver



#### Parts Basic Version:

4x   2pole terminal block	Control of the second s	1x 6pole male header
2x	1x	1x
8pole male header	10pole male header	6pole female header
2x	1x	1x
8pole female header	10pole female header	Diode 1N5819

#### Construction manual ArduiBox Rev A



#### 1.) Prepare the terminal blocks

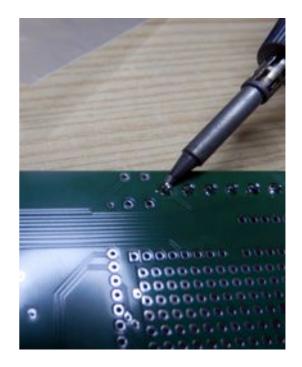
Find the terminal blocks, they're grey and come in 3-pin and 2-pin shapes. We'll need to slide two 2-pin and one 3-pin blocks together:



#### 2.) Place and solder terminal blocks

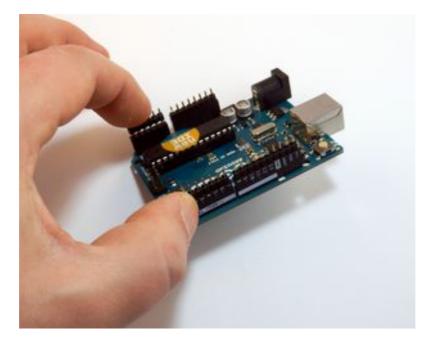
We've to put the blocks into the proto plate. Make sure you place them so that the open ends are facing out as shown:





#### 3.) Prepare the male headers for Arduino

Find the 4 male headers and plug them into the female headers of the Arduino:



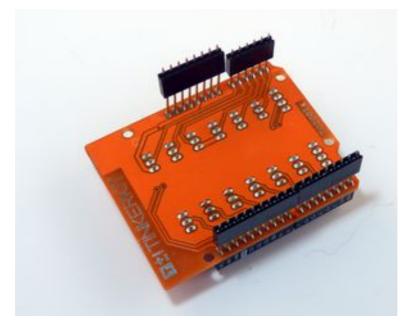
4.) Mount and solder the Arduino





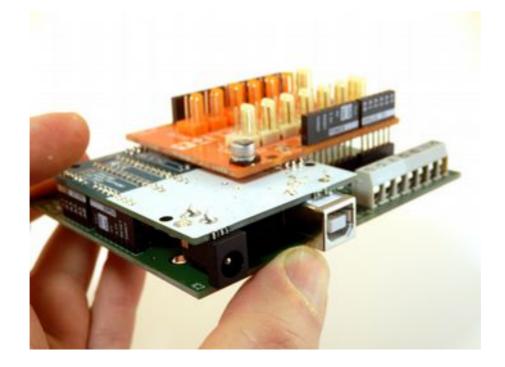
#### 5.) Prepare the Shield (optional)

**Perform this step only if you really want to use a Shield!** Find the 4 female headers and plug them into the male headers of the optional Arduino shield.



6.) Place and solder the shield (optional)

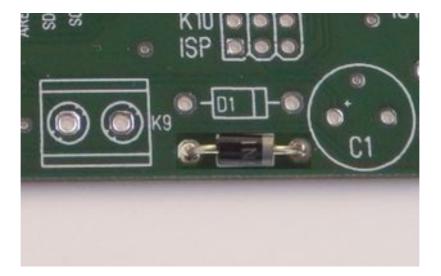
Perform this step only if you really want to use a Shield!



#### 7.) Remove the Arduino and the optional Shield



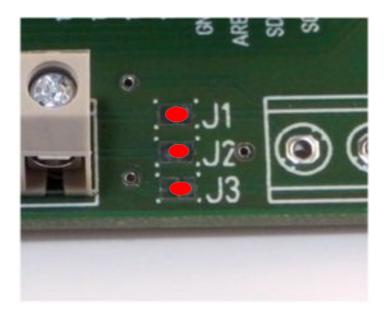
8.) Place and solder Diode D2 (1N5819)



#### 9.) Link the power inputs to the terminal

# Perform this step only if you really don't want to use the additional voltage regulator of the standard kit. If you want to use the power socket of the Arduino this step is also unnecessary.

Bridge all three jumpers J1 to J3 with solder:

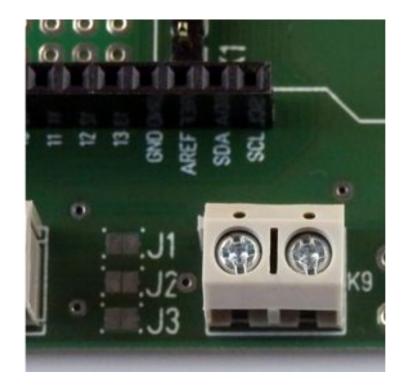


Perform the next steps only if you have the standard kit (includes the parts of the voltage regulator). Otherwise continue with step 16.

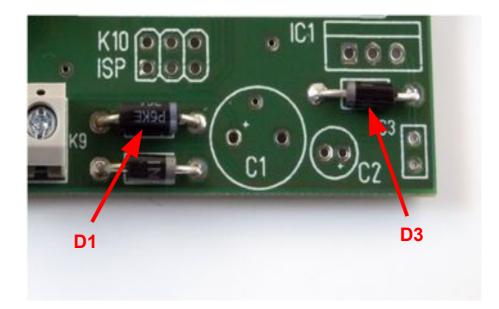
### Additional parts of Standard Version:



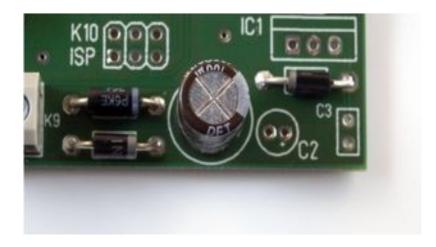
#### 10.) Assemble terminal block K9



11.) Assemble Diode D1 and D3



#### 12.) Assemble electrolytic capacitor C1



13.) Assemble electrolytic capacitor C2



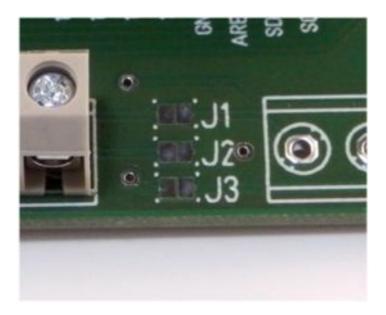
14.) Assemble capacitor C3



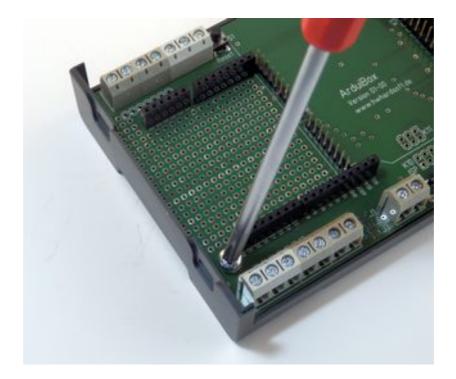
#### 15.) Assemble voltage regulator IC1



Note: Please take care that the jumpers J1 to J3 are not be bridged:



#### 16.) Mount the pcb into the bottom shell

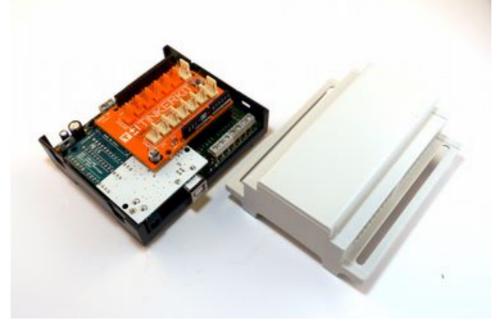


17.) Mount the 3 holders for the din rail



Please take care to mount the holder from the inner channel to the outside!

#### 18.) Plug the Arduino and optional Shield in the pcb!



19.) Mount the top shell!



