**Flash instructions**

**From Sources:**

A – Download git sources

B – copy content of git libraries directory to Arduino libraries directory (IniFile, AsyncWeb Server, SdFat)

C – Compile with ESP8266 CPU 160Mz and 4M/3MSPIFFS

D – Flash ESP

**From Binaries:**  
1 – Without SD Card   
A – Using esptool from ESP Arduino tools  
https://github.com/igrr/esptool-ck/releases/download/0.4.5/

esptool.exe -vv -cd ck -cb 115200 -cp COM46 -ca 0x00000 -cf <full path to>espfw.bin

esptool.exe -vv -cd ck -cb 115200 -cp COM46 -ca 0x00100000 -cf <full path to>espfs.bin

B - Using esptool from espressif  
<https://github.com/espressif/esptool>

2 – With SD Card

A -Firmware

Just put firmware espfw.bin on SD Card and reset/power board, if flash is successful it will be renamed espfw.ok, if not it will be renamed espfw.bad

B – SPIFFS

Just put file system image espfs.bin on SD Card and reset/power board, if flash is successful it will be renamed espfs.ok, if not it will be renamed espfs.bad

C – Configuration file

Just put file wconfig.txt on SD Card and reset/power board, if configuration is successful it will be renamed wconfig.ok, if not it will be renamed wconfig.bad

Note: if any .ok or .bad file already exists – it will be renamed first with a number like .ok1 – so .ok or .bad is always the latest one created