Spartan Lambda Wiring / Calibration

LED

Long Lead (+ve)

Short Lead (Ground)

Spartan Lambda Controller wiring loom

Red 12V Power

5A fuse

12V Ignition feed

White Heater Ground

Chassis Ground (NOT SENSOR GROUND!)

Black Signal Ground

Connect to "Sensor Ground" wire in ExtraEFI main loom.

ExtraEFI MS ECU

Green 0-5V output
0V = 10AFR
5V = 20 AFR

Connect output of Lambda Controller to "Lambda In" on ExtraEFI main loom.

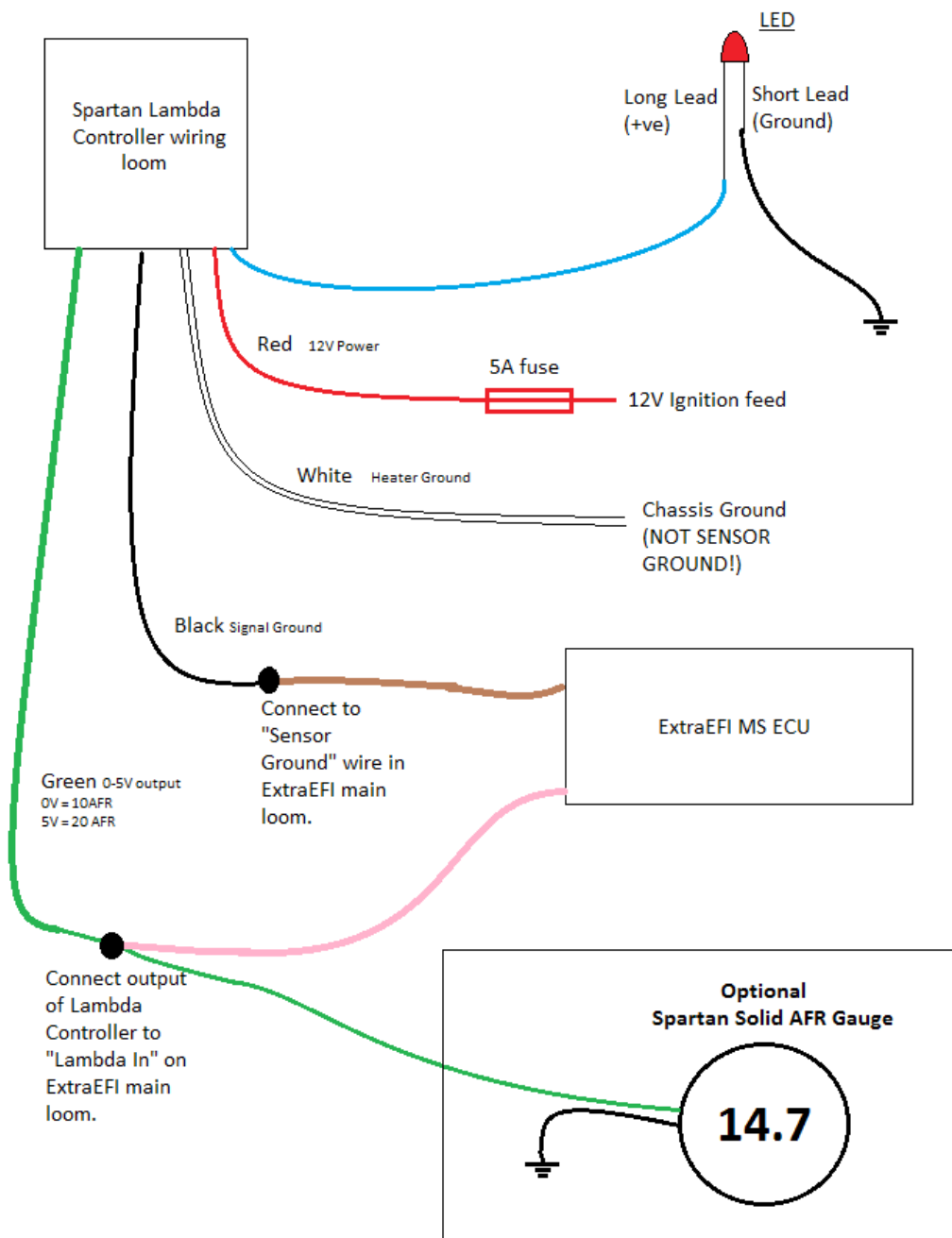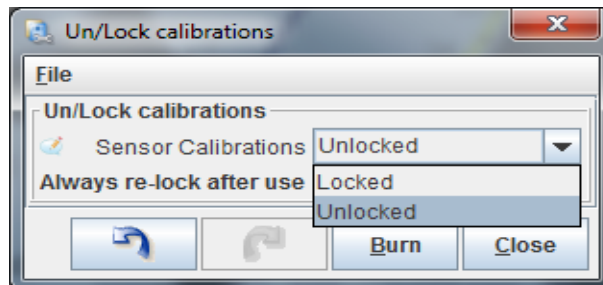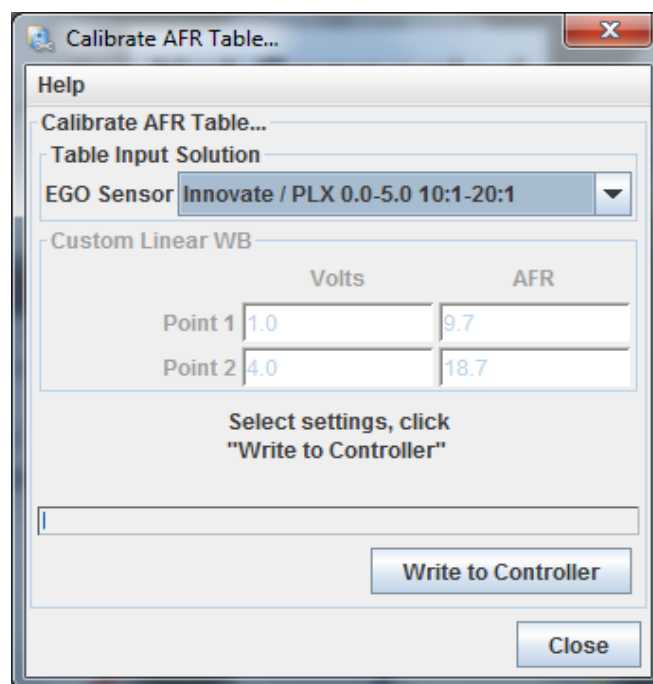Optional Spartan Solid AFR Gauge

14.7

Tuner Studio Settings

Calibrating the MS2-Extra and MS3 ECU to the Spartan Lambda:

Power the ECU up and connect to Tuner Studio, go into Tools - Unlock Calibration.

Select Unlocked and Burn then Tools - Calibrate AFR Table.

The Spartan is set to give a 0-5V output as 10-20AFR, so select "Innovate / PLX 0.0 5.0 10.1 – 20.1" as above, then click "Write to Controller"

Now the ECU will read the voltage from the Spartan correctly and display the AFR on the main screen.