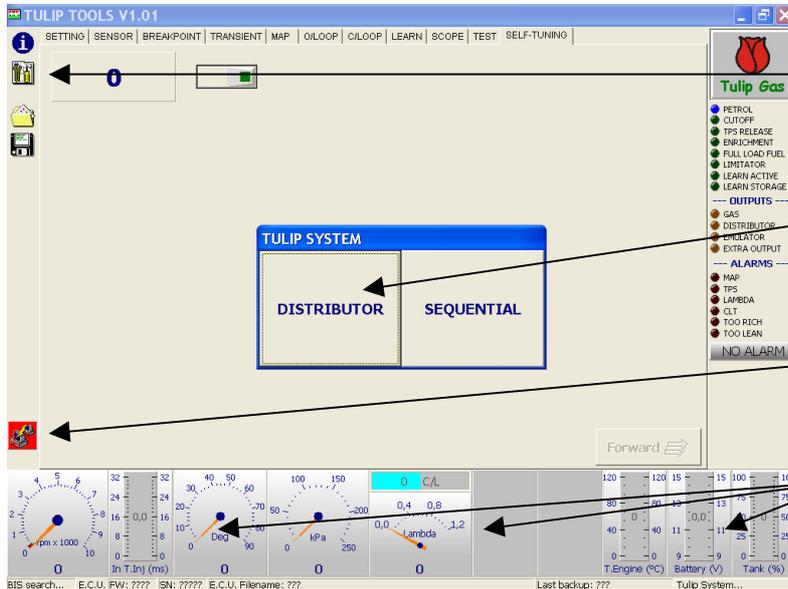




TTOOLS V1.01 Introduction of the Tulip-Tools V1.01 (TTOOLS 1.01) User Interface

After opening of the program, double clicking on the TULIP icon, you will see the opening page of the program as below



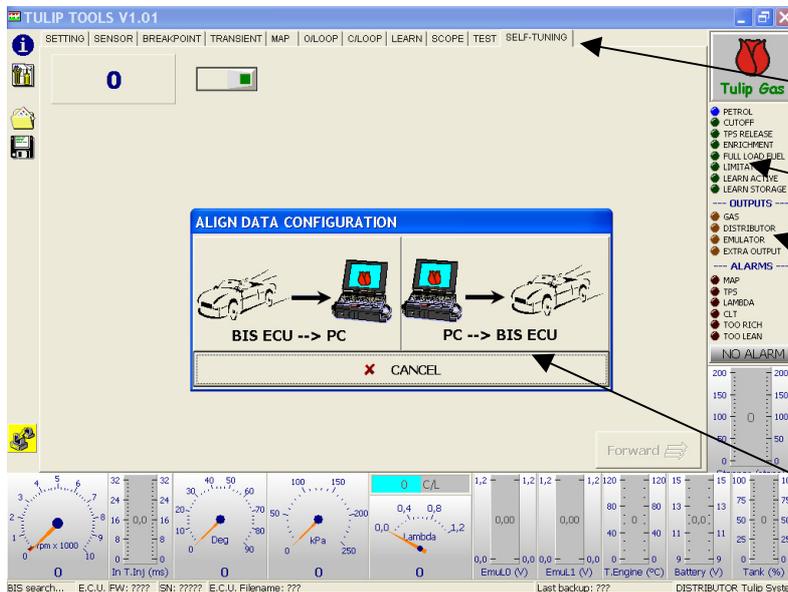
To select the right language and the COM port, click on the SETUP icon in the left upper corner.

In the opening page of the TTOOLS program, you can choose between the DISTRIBUTOR or the SEQUENTIAL BIS system.

This icon indicates the status of the communication port (red = disconnected; green = in communication)

Down you can see all signals from the engine: RPM, injection time, TPS, MAP, Lambda (with closed loop C/L indicator), emulated lambda signal, lambda signal for second oxygen sensor etc.. etc..

In this case, we will choose the DISTRIBUTOR BIS system. The following page will appear:



On the top side, you can see the various TAB-SHEETS. Right now we are in the SELF-TUNING tabsheet.

Here are the green FUNCTION LEDs to indicate the various states of the system.

Here are the outputs LED lit when active

And the red ALARMS LEDs to indicate if, and what kind of error has been memorized by the system.

Here the program asks you if you want to receive a calibration from the ECU or if you want to SEND a calibration file from the PC to the ECU (this will empty the ECU and put all defaults values!!)

If the ECU is new and has never been installed before, it will contain the DEFAULT values. Click on the BIS ECU -> PC icon to start the communication with your PC. You can see that the communication status icon will become GREEN.

On the most bottom line you can see : communication status ; firmware version ; SN (serial number) of ECU ; the filename of the file currently saved in the ECU ; last backup date and if the TTOOLS program is set for the DISTRIBUTOR or the SEQUENTIAL system.