Advanced Tuning
USER MANUAL

Diag4Bike v14.1

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Advanced tuning:

By this method of the tuning it is possible to use full range of tuning functions. The method provides ability to use an embedded database of calibrations. These calibrations (maps) are pre-set for several configurations of exhaust and intake components (open exhaust, intake and combinations). Advanced tuning method provides important improvement of engine functions.

Necessary equipment:

+ tuning dongle (orange one)
+ communication interface
+ software Diag4Bike
+ adapters
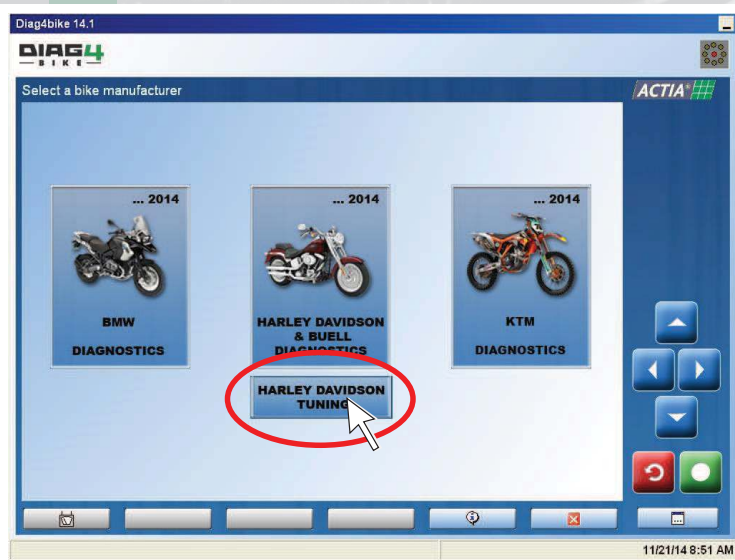
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1. Pairing & backup

1.1 Connecting Diag4Bike

Connect Diag4bike to motorcycle and make sure, that the battery is well charged. For sure you can connect battery charger.
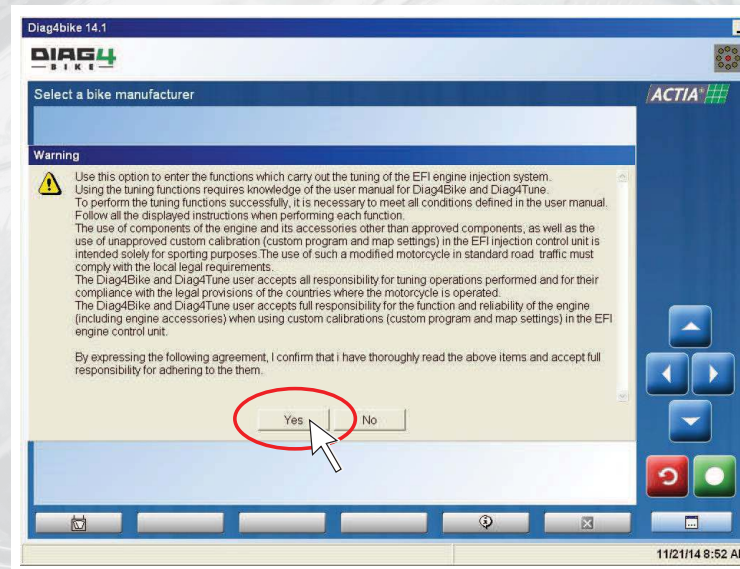
1.3 Confirm your acceptance of conditions

Confirm your acceptance of conditions..

1.2 Connecting Tuning Dongle

Connect Tuning dongle (Orange) to PC and launch Diag4bike software.

(Click on **HARLEY-DAVIDSON TUNING** icon)
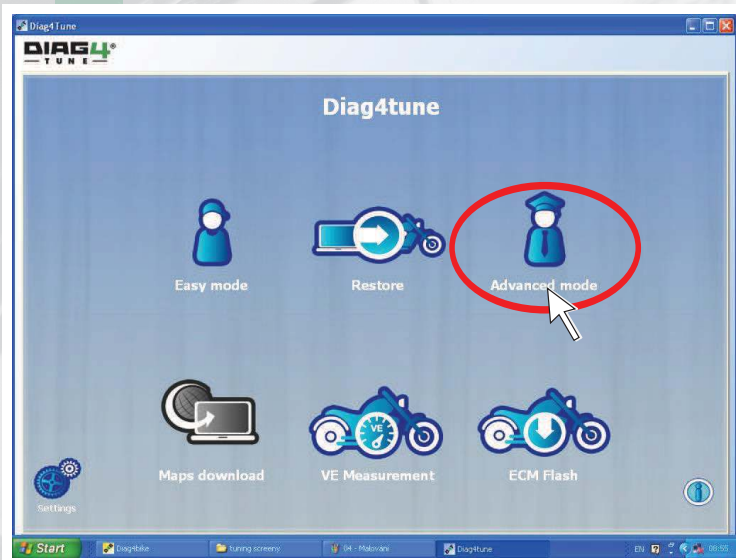
1.4 Saving of original calibration

Switch ON bike ignition and click on icon **Pairing & Backup**.
(In this step, original calibration from bike will be stored.
After successful pairing, the icon **Pairing & Backup** will be charged to **Restore)**
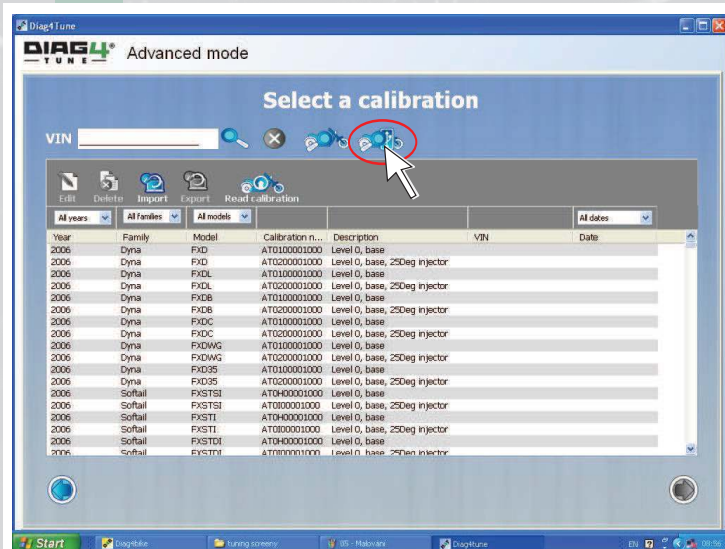
2. Advanced tuning

2.1 Selection Advanced tuning mode
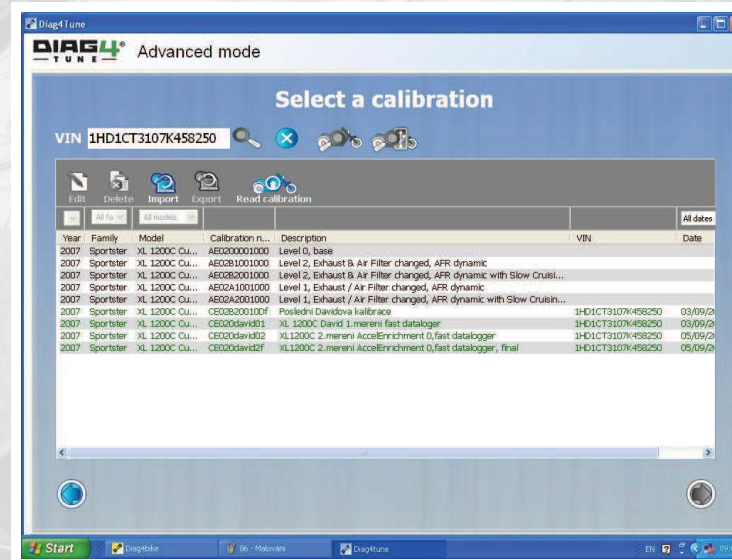

Select **Advanced mode** button.

2.3 Maps

Now you can see the list of all available maps for your bike.

BLACK:
-stock and recommended calibration

2.2 Bike selection

Click on **Read VIN from dongle** button.

NOTE:
You can also read VIN from motorcycle and enter manually.

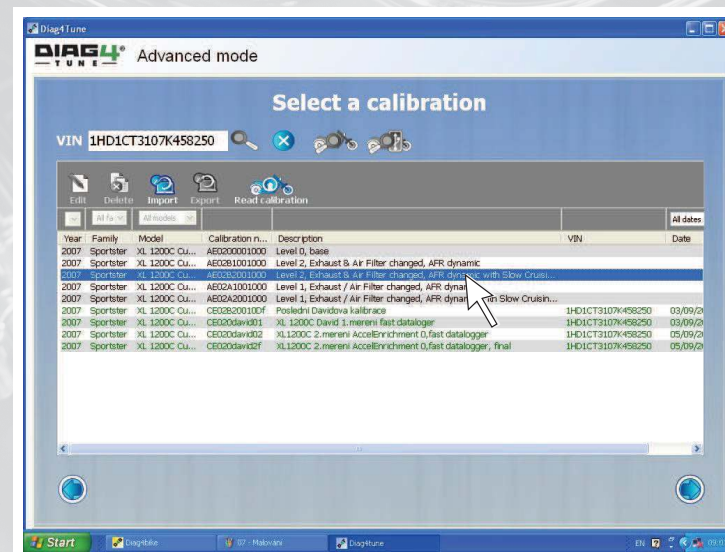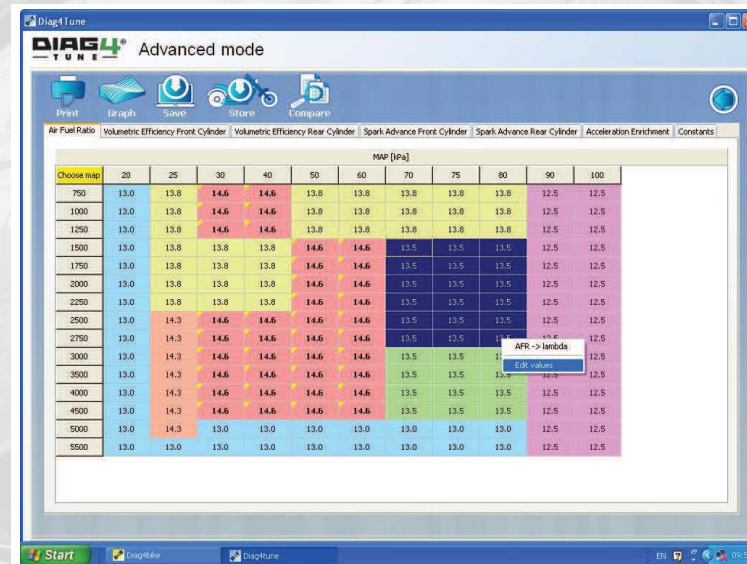### 2.4 Map selection

Select a map, which you want to store to the bike. You can choose a map for bike, which is equipped by exchange Exhaust, Air filter or both. You can also decide, if you want to include Slow cruising jerking compensations.

2.5 Map confirming
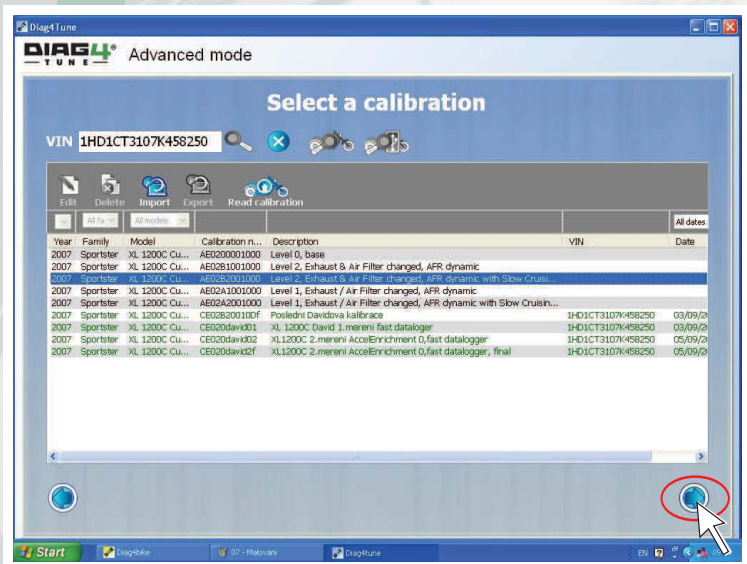
For confirming press **Next button**.

3. AFR map setting

3.1 AFR map setting - choosing pre-set recommended map

If you want to modify the AFR map, you can use our recommended AFR setting by clicking of right mouse button on yellow button Choose map.

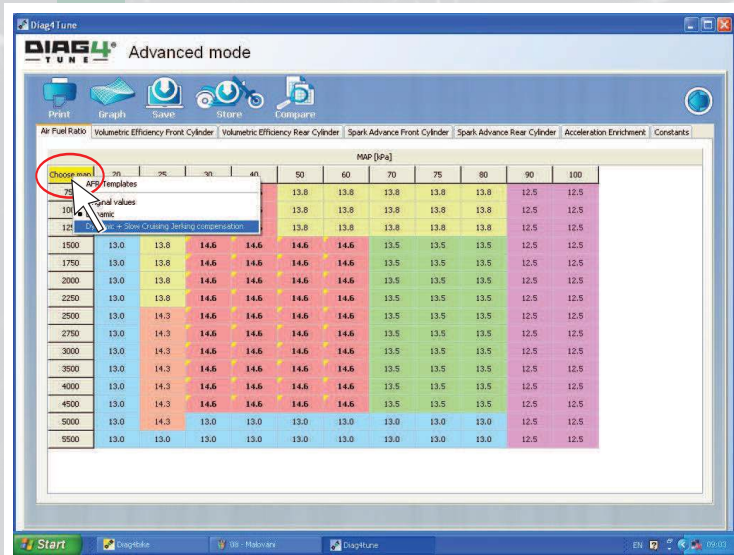## 3.2 AFR map setting - changing values manually

USE ONLY If you want to modify the AFR map values manually.

Mark specific area (click and hold left mouse button)
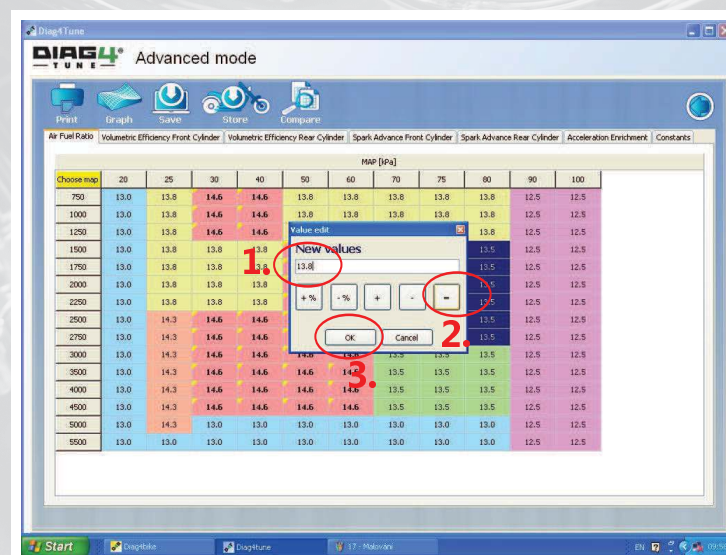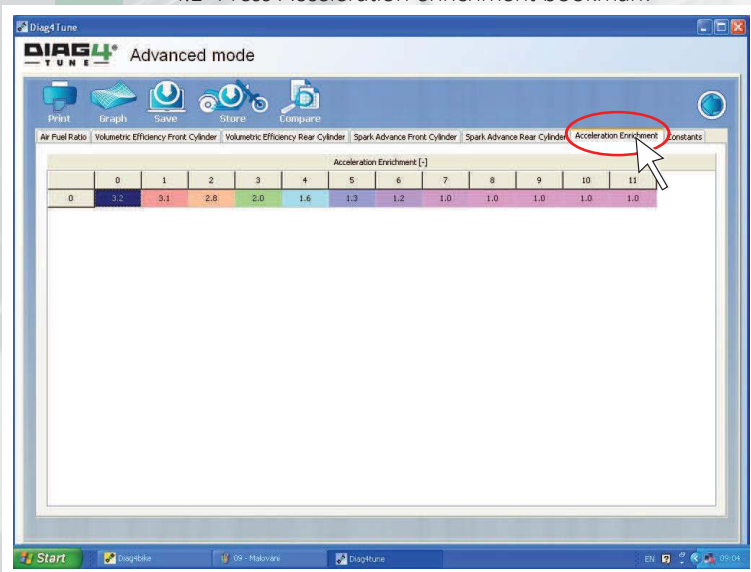Click right button and choose Edit values.

3.3 Entering desired values and confirming
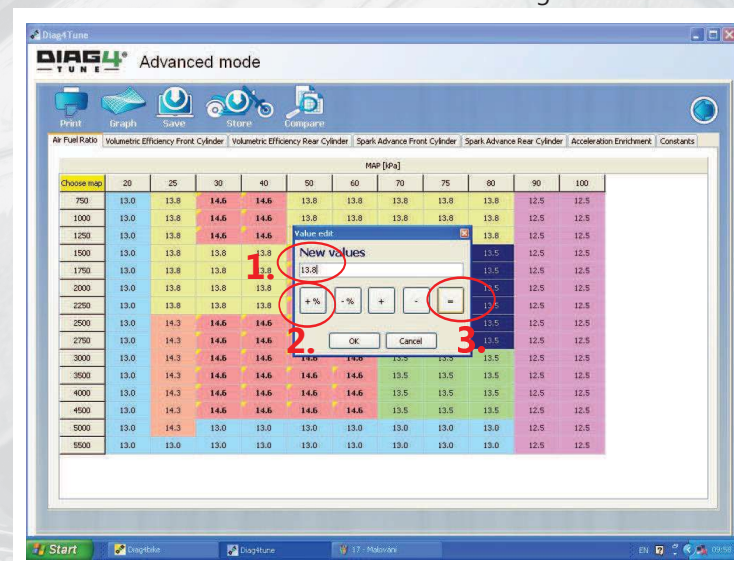

Enter new value and press symbol "=" for confirming.

4. Acceleration enrichment setting

4.1 Press Acceleration enrichment bookmark

Choose Acceleration enrichment bookmark

4.2 Mark values you wish to edit
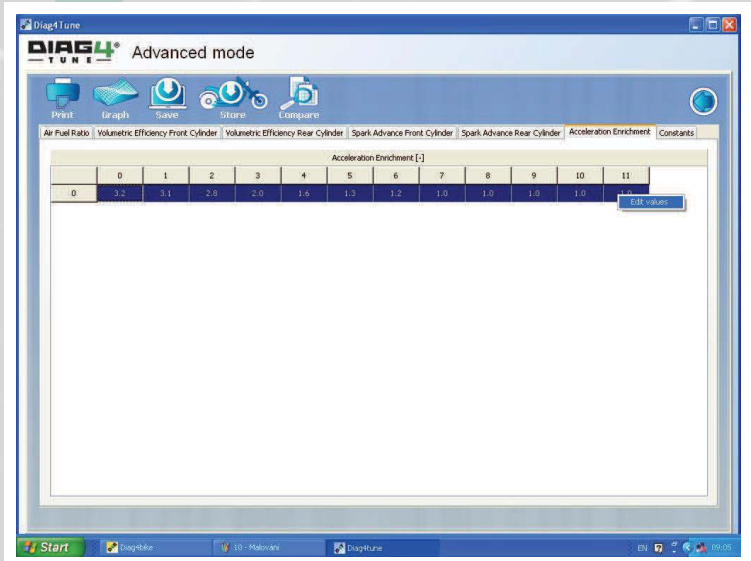
Click by left mouse button on first field, hold it and move to right.
Click right mouse button and select Edit values.
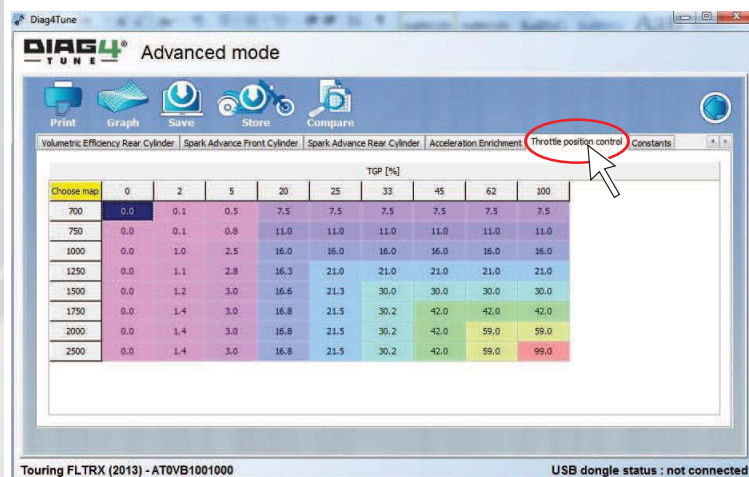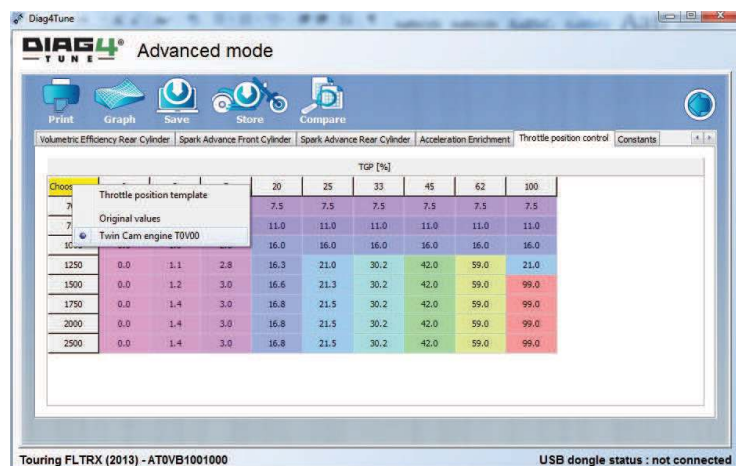
4.3 Editvalues and confirming

Type number "10" to blank field.
Press **"+%"** button to rise value.
Press **"="** button to confirm.

5. Throttle position control setting (CAN models)

5.1 Press Throttle position control bookmark

Choose Throttle position control bookmark.

5.3 Changing Throttle position control setting - manually

USE ONLY If you want to modify Throttle position setting manually.
Mark specific area (click and hold left mouse button)
Click right button and choose **Edit** values.

5.2 Changing Throttle position control setting - pre-set configuration

Click right mouse button on yellow button **Choose map** and select desire teplate.
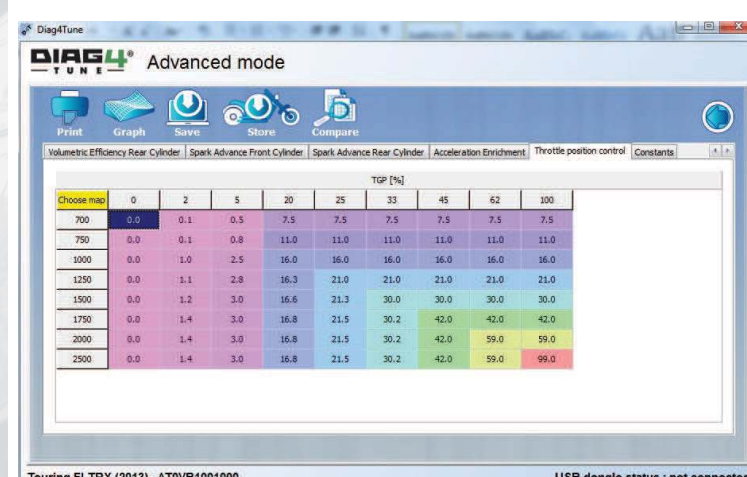
6. Tuning completion

6.1 Saving of a new calibration

Your new calibration is ready now. Save new calibration to PC, by clicking on **Save** button.
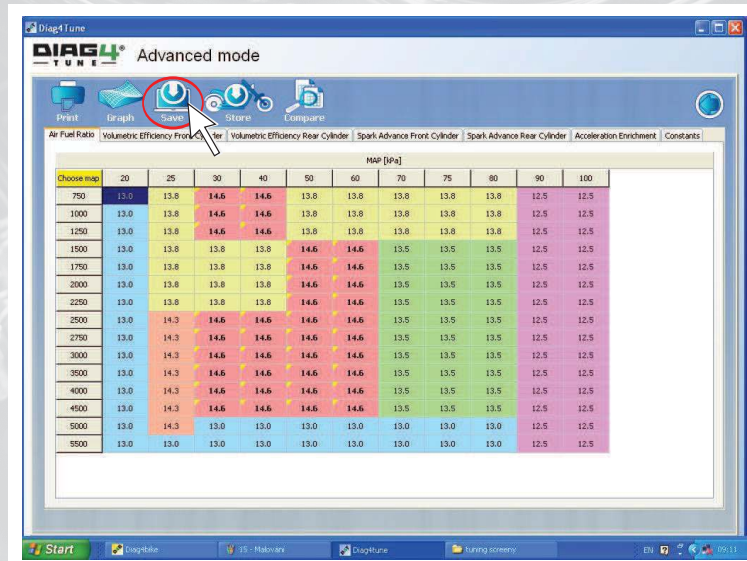
6.2 Enter name of the calibration
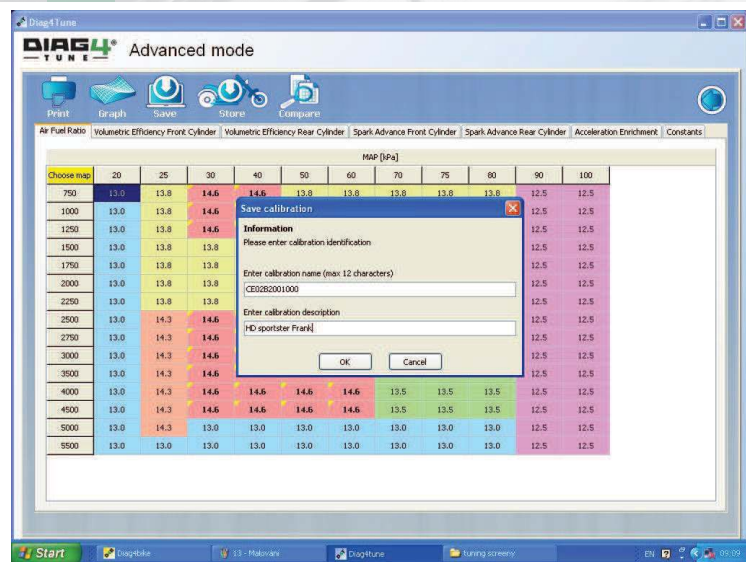
Enter desire calibration name and confirm by **OK** button.

6.3 Store the calibration to the bike

Switch ON the bike ignition and click the Store button to **store** calibration to the bike.
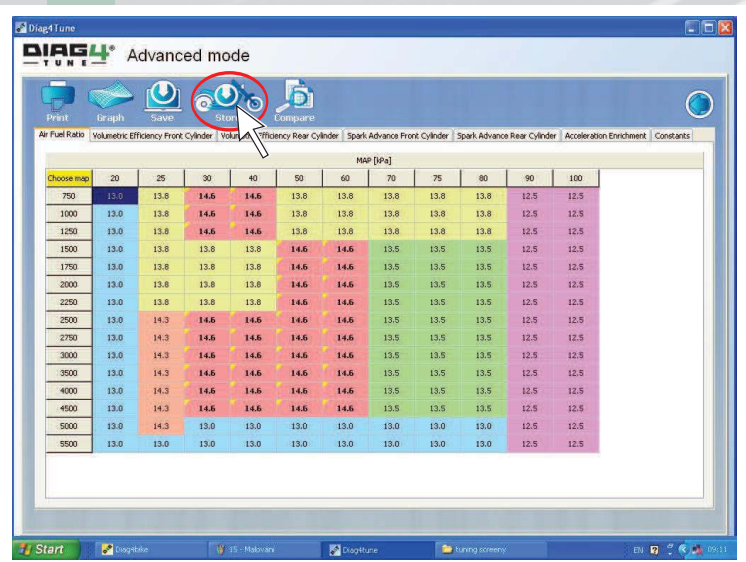
6.4 Closing Diag4Bike

You will get to main menu by clicking to **Back** button. You can close Diag4Bike now.

Disconnect Diag4Bike from motorcycle. Place "TUNED BY DIAG4BIKE" stick on motorcycle and go for test ride.

Do not forget give the Tuning dongle to your customer.

7. Restoring
7.1 Restoring original calibration

If you want to upload original calibration to the bike:
- plug Tuning dongle to PC
- connect Diag4Tune to your bike
- launch Diag4Tune software
- press **Restore** button

Original calibration will be loaded into the bike.