



# ProECU Subaru Diesel

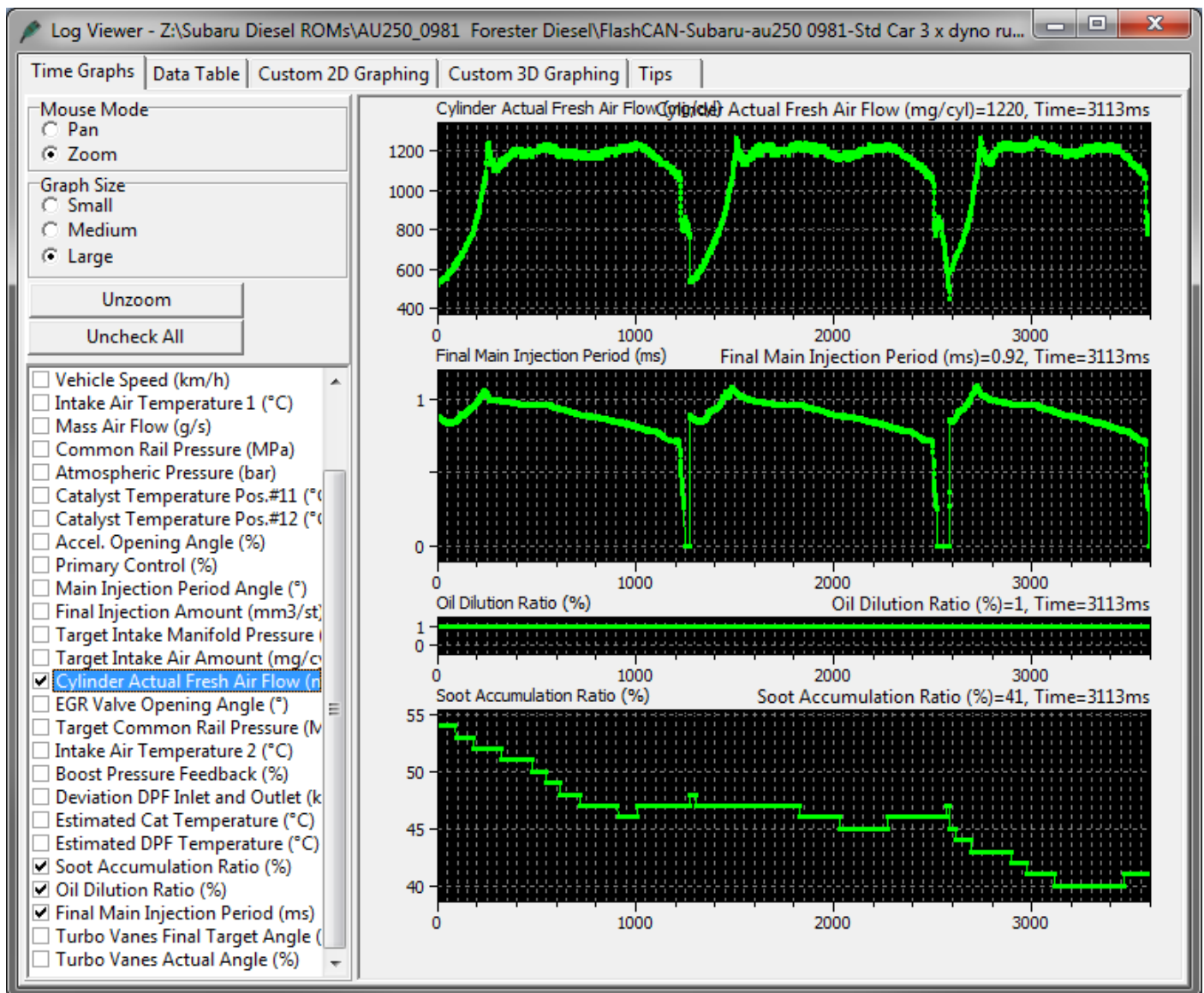


## Subaru Diesel DPF Information 2010-onward Model Year

v0.2

## Logging

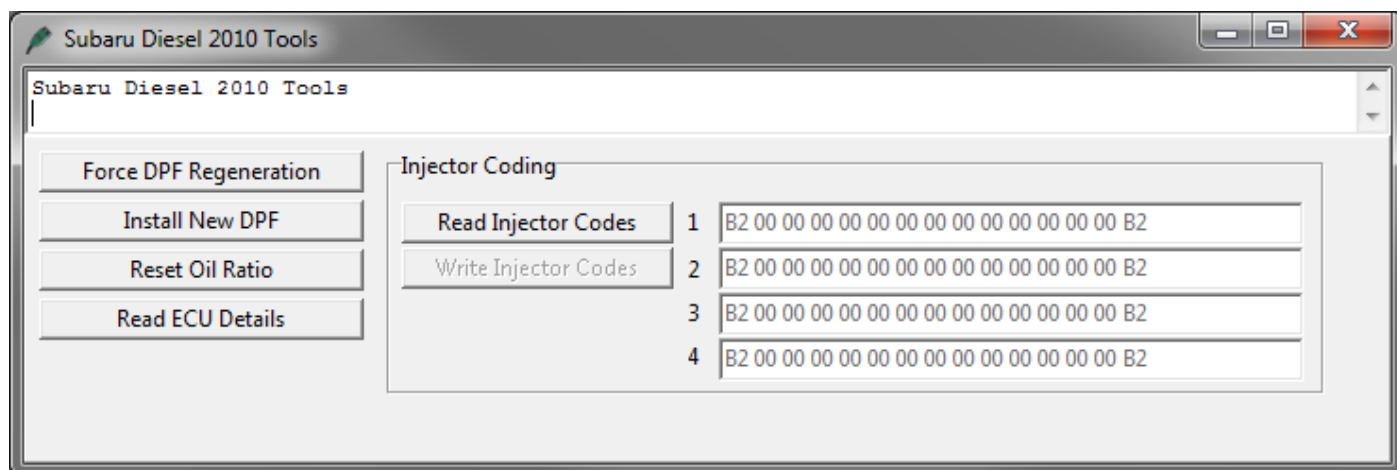
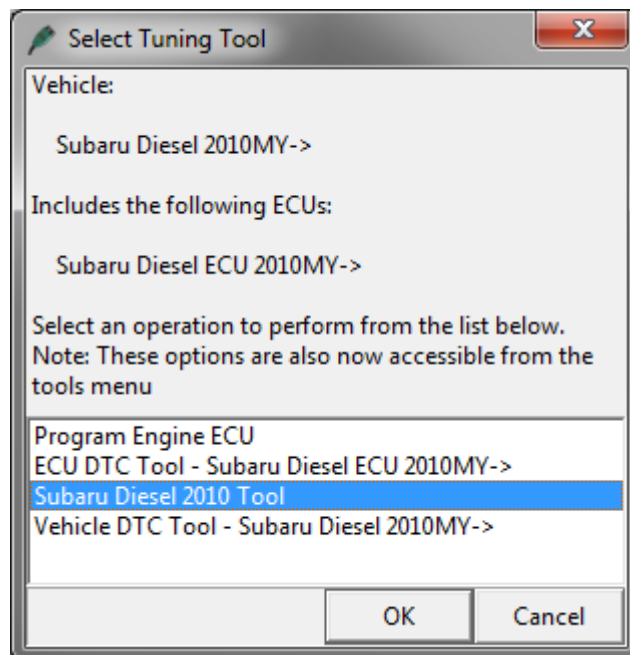
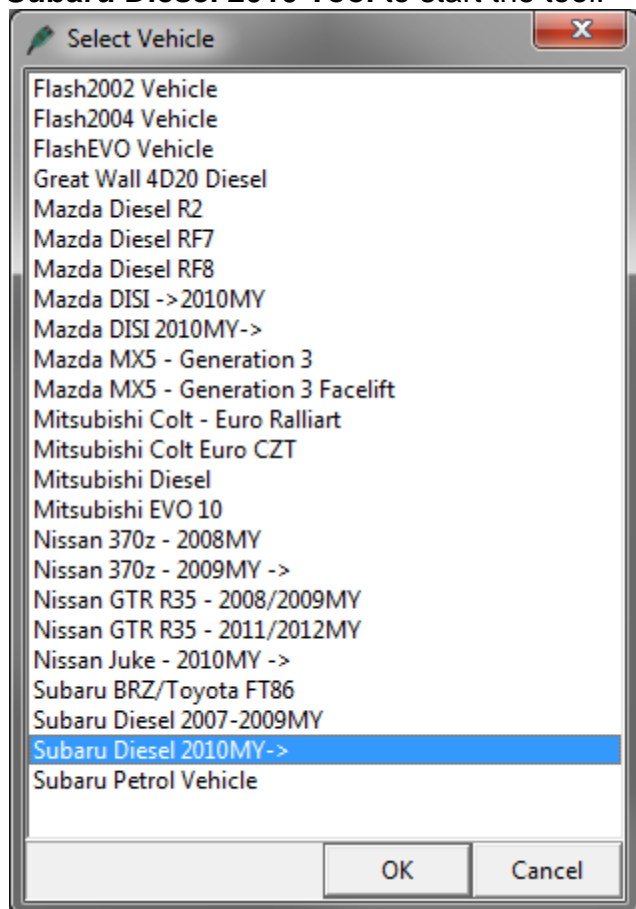
Various DPF related parameters can be viewed in Live Data, or logged to file, as shown below:



The **Soot Accumulation Ratio** parameter can, for example, indicate if the **Force DPF Regeneration** tool should be used. If the Soot Accumulation exceeds 65% then an Active Regeneration (Regen) will commence when conditions are correct (engine up to temperature, driving over 50kph for 10 minutes etc)

## Subaru Diesel Tools

The Gen 2 Subaru DPF features can be found in ProECU under **Tools** menu, by selecting **Manually Select Vehicle** option. Now select the **Subaru Diesel 2010MY** option and then select **Subaru Diesel 2010 Tool** to start the tool.



### Force DPF Regeneration

If the DPF is blocked and Soot Ratio is below **130%** then choose **Force DPF Regeneration**.

This process will take 15-30 minutes and must be carried out under the following conditions:

- Vehicle up to temp
- Engine is running
- Vehicle is in a well ventilated area!

If the DPF is blocked and Soot Ratio is beyond **135%** then the **Force DPF Regeneration** function will not work. In this situation you can use the **Install New DPF** feature, which will then allow the **Force DPF Regeneration** feature to be used again (even though the DPF Soot Ratio is beyond 135%).

In this case it is very important that **Force DPF Regeneration** is used immediately to try and 'save' the DPF. It is also advised that the vehicle is driven for 60miles (100kms) at 2000-2500rpm to clear the DPF as much as possible.

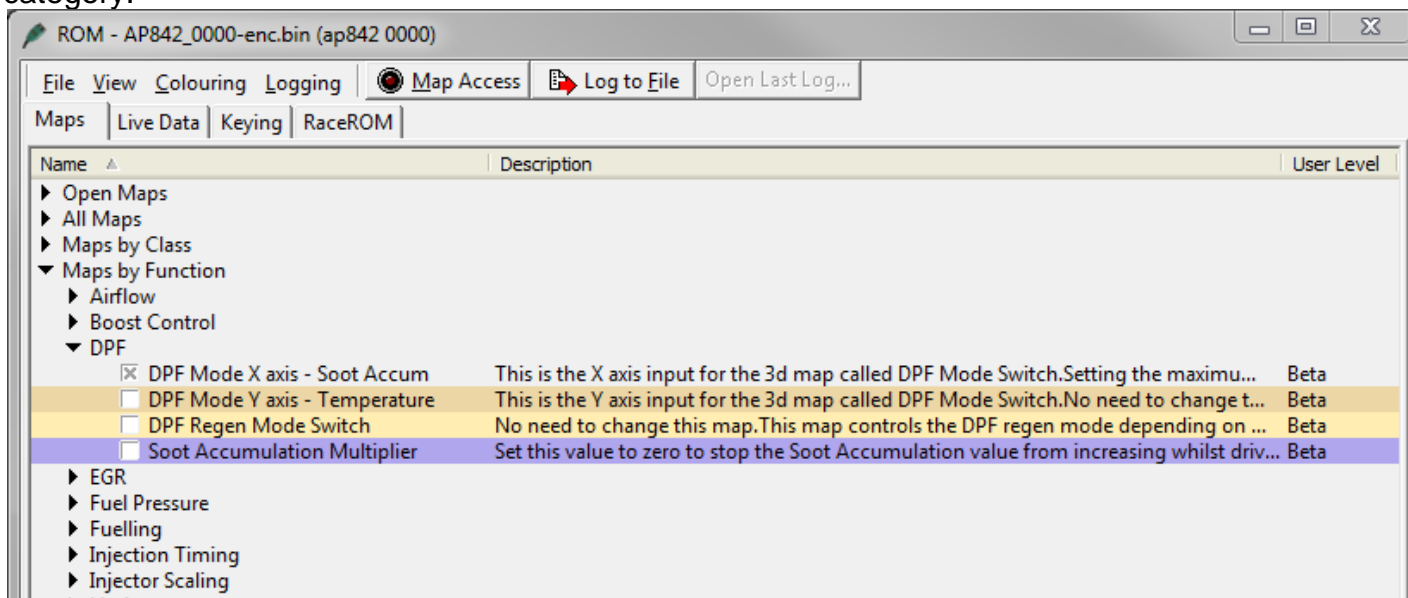
### Install New DPF

If the DPF is to be removed then select the **INSTALL NEW DPF** feature to reset the DPF errors and set Soot Accumulation values very low before programming the ECU.

**NOTE:** The DPF Tool features are not currently available for Gen 1 Subaru Diesel; you will need to use the Subaru Dealer SSM3 tool for DPF Regeneration process.

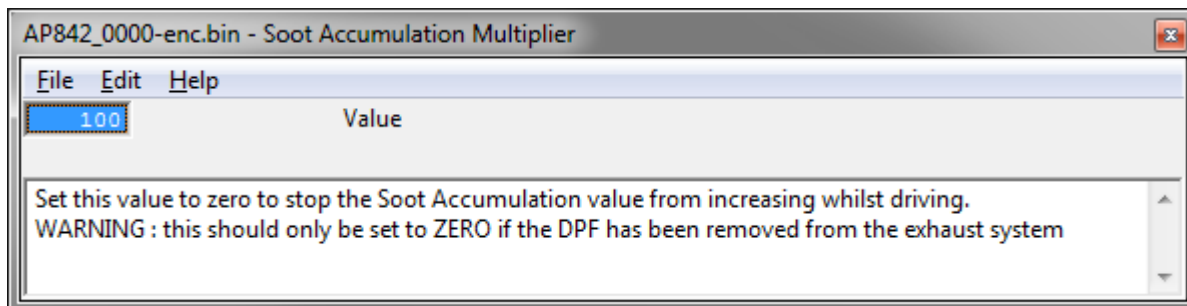
## Creating a Subaru Diesel DPF Delete ROM file

Open the Subaru Diesel ROM and choose **Maps By Function** and then expand the **DPF** category:



### Step 1.

Open the 2D map called **Soot Accumulation Multiplier** and set this to Zero. This will stop the Soot Accumulation Multiplier from increasing over time.

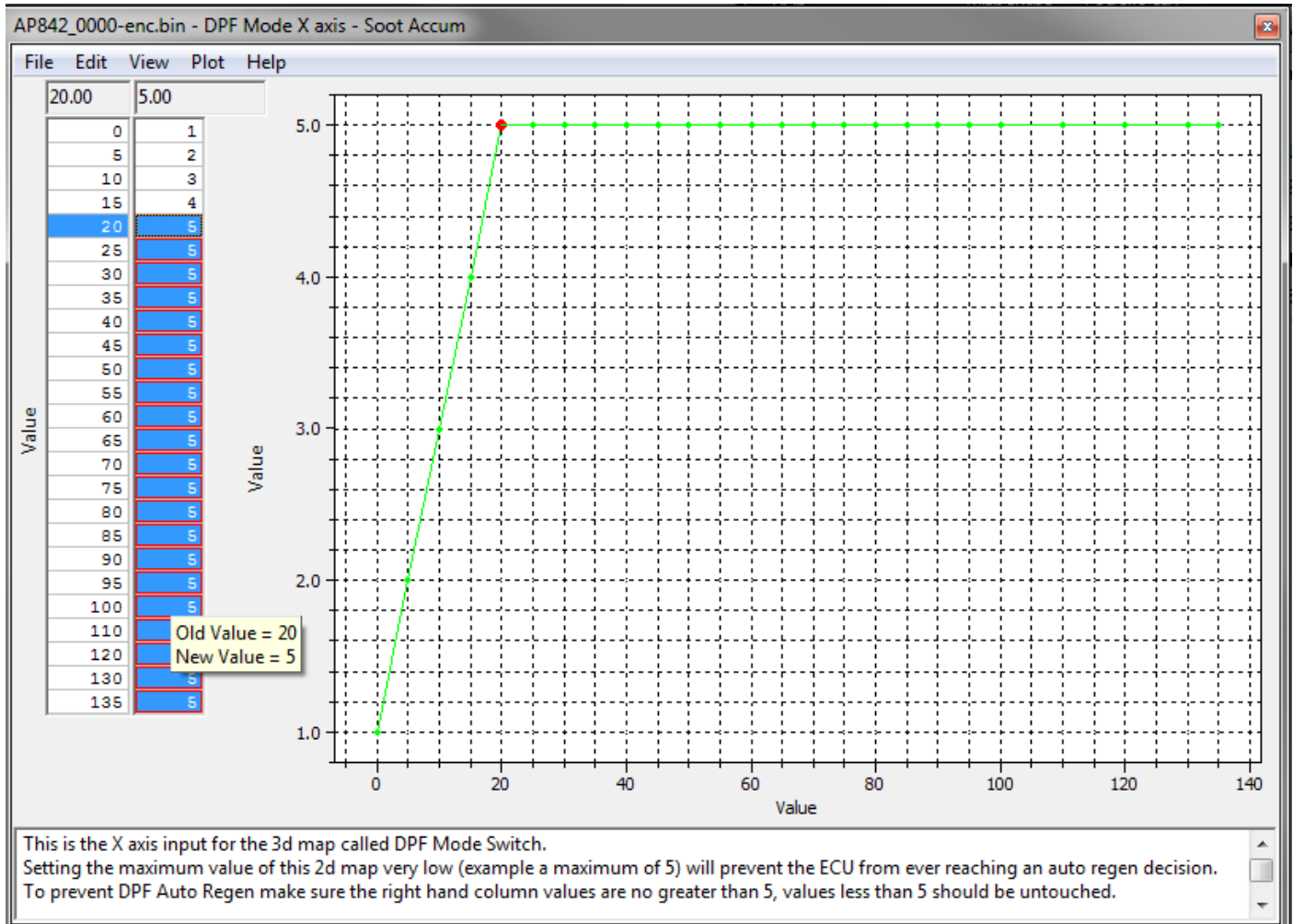


### Step 2.

Open the 2D map called **DPF Mode X Axis – Soot Accumulation**. Set the maximum value of this 2D map very low (a maximum of 5) which will prevent the ECU from ever reaching an auto regeneration decision.

To prevent DPF Auto Regeneration, make sure the right hand column values are no greater than 5, values less than 5 should be untouched.

This 2D map is the X axis input for the 3D map called **DPF Regen Mode Switch** which makes the Regeneration decisions.



### Step 3.

Save the ROM file and program the ECU.

Take the car for a 30 minute drive and ensure that the Soot Accumulation does not rise during the journey.

Also check that the differential pressure sensor reading is very low, indicating a clear exhaust system (and no parts of DPF are blocking the rear silencer). Some models may show a Differential Pressure Sensor error, in this case then simply connect the Pre DPF Pressure sensor pipe to the Exhaust system (or to boost pressure) and leave the Post DPF pipe to atmosphere.