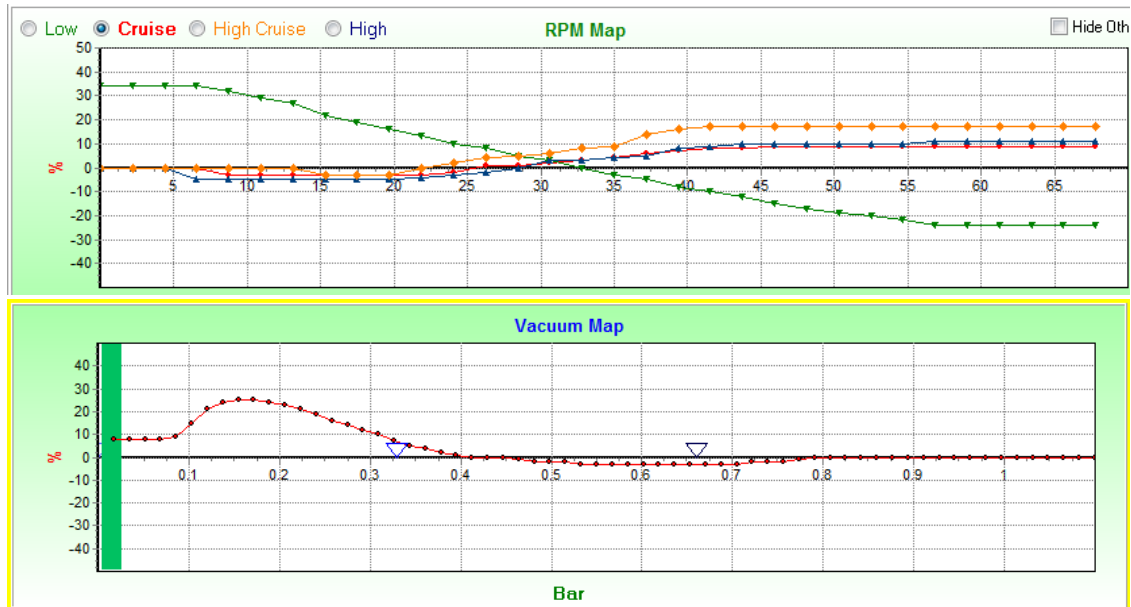


To do TPS versus RPM fuelling or for blending we use the Low RPM fuel map to change the gain for the TPS signal that is diverted onto the map signal. The reason is that for a certain throttle position the load on the engine varies with RPM. The higher the RPM, the less pressure will go into the cylinders if the throttle is not fully open. Thus you need to compensate for RPM in a larger way than only normal compensation. The compensation also varies with different RPM values.



For the low RPM graph only the scale is from 0 (-50) to 100 (+50). It does not have 0 in the middle. This value will be multiplied by four and then used as TPS gain compensation. Example if the gain on the graph at max RPM 25%, then multiplied by four is 100%. This means that 100% TPS value will result in 100% Map value on the top graph. If the value on the left side of the graph is 82% then the result is 328%. This means that 30% TPS value will result in 100% Map reading. The rest is plot on the graph for each +-200 RPM.

Now what this means that when the RPM is low, a small variation on the TPS will result in a large movement on the MAP graph. This will result in a larger fuel pulse. When RPM increase the gain will reduce and the fuel pulse will decrease.

The steps to set up are increase the load to full throttle and max RPM. Leave the gain at 26% and only adjust the Main jet till the right mixture is reached. Remember to make sure the engine does not go lean during the acceleration phase. Increase the main jet if you see it go lean.

Now keep the RPM at max and reduce the throttle. Now adjust the top Vacuum graph to keep the fuel mixture right for all throttle positions.

Now release the throttle and start at low RPM. Increase the throttle on each RPM value and adjust the gain on the graph till the fuel mixture is right for that RPM value, now map out to the right side of the graph.

Now map the three remaining RPM fuel correction graphs as with other ECU's as described in the manual.

Settings are:

Make the fuel vacuum Low selection 0.

Divide the vacuum range in three and set the middle and high vacuum values.
Put the fuel calculation on TPS only.