

SPEEDOMETER READING INCORRECTLY

MY SPEEDOMETER DOES NOT READ CORRECTLY WHEN COMPARED TO MY GPS. HOW CAN I FIX IT?

If the speedometer is driven from the ECM, there is a value in the tune that can be adjusted to change how the speedometer reads. This is true on most newer bikes, but many older bikes had the speedometer driven directly from the speed sensor. You will need to know which you have before continuing. You next need to know how far off the speedometer reads as a percentage. For example, if your speedometer reads 10% off and the speedometer indicates 50 mph; but you are actually traveling at 45 or 55 mph.

Now you need to know the speedometer calibration in the tune you are using. There are two ways to retrieve this value; Quick Tune on the Power Vision, or opening the tune in WinPV. The easiest method is Quick Tune, below is that method.



In Quick Tune (found under Program Vehicle), select the Config tab. See the VSS setting displaced here. This is the pulses per KM, or the rotations of the transmission output shaft in one kilometer. On the screen below the value is 2240. Your value will most likely be different.

In this example we will want to correct for a 10% error, so we calculate a 10% difference to this value, both plus and minus. To do this we multiply the VSS value of 2240 by .9 and by 1.1 for the results of 2016 ($2240 \times .9$) and 2464 (2240×1.1). We would try the value of 2016 or 2464 for the VSS in the tune, and see which is correct. One of the two results should be correct, or at least closer to correct. Repeat if necessary with the new, smaller error percentage.