ENGLISH (MPH) ←→ METRIC (KPH) CONVERSION – APPENDIX 4:

The SpeedChanger© unit can be effectively used to modify an existing speedometer to read in a different system of measurement (i.e. metric KPH). For example if you find yourself crossing over into Canada from the United States on a regular basis and would like to know how fast you are traveling without guessing or performing annoying calculations in your head every time you look at the speedometer, perform the following installation.

The SpeedChanger© unit can be installed with a simple Single Pole, Double Throw switch, easily accessible by the driver that will enable and disable SpeedChanger's© operation. Simply by entering a ratio value of 09/05 into the SpeedChanger© dials and enabling the unit you will convert the speedometer reading from English (MPH) to Metric (KPH).

If you have a vehicle that has a speedometer that reads in Metric (KPH) and would like it to read English (MPH) enter a ratio of 05/09 to make the conversion.

If you have a vehicle that requires both calibration and conversion you will need two (2) SpeedChanger© units to perform the necessary operations. As you can imagine, if the SpeedChanger© is not enabled it will not be possible to make the required calibration & conversion.

If your speedometer only reads 85 MPH and you convert to Metric (KPH) you may find that at highway speeds you "run out" of range on your dial. You may decide to divide your (KPH) reading by two (2), this will allow your speedometer to remain in range. A simple multiplication by two (2) is fairly easy to perform in your head when reading the dial.

FOR EXAMPLE:

Speed		SpeedChanger© Setting		Speedometer Reading
55 MPH	x	09/05	=	99 KPH (> 85 top of your speedometer dial)
55 MPH	x	09/10	=	49.5 KPH (multiply by 2 in you head =~100 KPH)

INSTALLATION MODIFICATION FOR UNIT CONVERSION:

Install the SpeedChanger© as described in this manual with the following modification to the circuit for an English to Metric conversion switch.

START (Stock Vehicle Configuration)

From Speed Sensor Or Engine Computer ———— Speed Signal Wire Pos (+) (VSS+) ————► To Speedometer

TYPICAL CALIBRATION INSTALLATION

From Speed Sensor Or Engine Computer → In ORANGE / Out WHITE SpeedChanger© → To Speedometer

Note: If Calibration is required it must be done before the Conversion as shown in dotted line.

UNIT CONVERTER INSTALLATION

From Speed Sensor Or Engine Computer → In ORANGE / Out WHITE SpeedChanger© →

Simple low current SPDT Switch. Mount for ease of use. Shown in "Convert Mode". → To Speedometer