

Fuel injection VE table exchange file format (\*.vex). This protocol is being developed in order to easily backup and restore VE tables, and transfer VE tables between different software's.

#### VEX Format Information:

- 1) Current Version 1.0
- 2) Creation Date 07.14.02
- 4) For changes or clarifications contact:  
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Or send a message to the MegaSquirt project at  
<http://groups.yahoo.com/group/megasquirt>

#### Specifics:

- 1) This is a simple ASCII file.
- 2) This protocol will be able to contain more than one VE map (for 2,3+ map systems).
- 3) This protocol can be used for Speed Density or Alpha-N systems
- 3) Engine RPM's are expressed in hundreds of RPM's (=RPM/100).
- 4) There is no case sensitivity.
- 5) It is blank space delimited.
- 6) Spacing specifications are for ascetic purposes, and are just recommendations. Except for the VE table, these values are delimited by at least one space.

#### Format:

- 1) The first line is the header and will contain the word "EVEME" followed by a space and then the version number of the VEX format (currently 1.0). Anything after the version number is ignored.
- 2) "Page" defines the map number of the data following. If there is no "Page" defined in the file then map# 0 is assumed.
- 3) Lines beginning with "VE Table RPM Range" define the number of RPM bins, and the lines following contain the values for the bins. After "VE Table RPM Range" there is a bin count enclosed in brackets: "[" integer value and "]".
- 4) Lines beginning with "VE Table Load Range (MAP)" define the number of MAP bins, and the lines following contain the values for the bins. After "VE Table Load Range (MAP)" there is a bin count enclosed in brackets: "[" integer value and "]".
- 5) Lines beginning with "VE Table Load Range (TP)" define the number of TP bins, and the lines following contain the values for the bins. After "VE Table Load Range (TP)" there is a bin count enclosed in brackets: "[" integer value and "]".
- 6) Data for MAP/TP and RPM tables are blank delimited as follows: 4 spaces, "[" 3 spots for count starting with 0, "=" 1 space, 3 spots for decimal values. RPM bins are expressed in hundreds of RPM's (RPM/100).
- 7) "VE Table" starts the definition of the VE map.
- 8) Immediately after "VE Table" is the map header. It is constructed as follows:
  - a) 11 spaces.
  - b) "[" 3 spots for RPM bin counts, "]".
  - c) 1 space.
  - d) Repeating b and c for each subsequent RPM bins.
- 9) Data for the map table is also blank delimited as follows:
  - a) 4 spaces.
  - b) "[" 3 spots for count starting with 0, "=" 2 spaces.
  - c) 3 spots for decimal values.
  - d) 3 spaces
  - e) For each subsequent VE value repeat c and d
- 10) After a complete definition of RPM, MAP/TP and VE tables the "Page" command can be issued again to define a subsequent VE map.

