FTC1-019B Fuel/Timing Calibrator for Jeep 3.8

Use and Installation Instructions (ECU pinout for 2008 model):

1) Use with R4 software
2) Select Vac/Pressure and Programmable Signal Calibrator under system settings. Refer to the FTC1 data sheet for more information.
3) Select one cylinder and 4 stroke under Options and Engine settings
4) Program the fuel in Map table A
5) Use the signal modify connection per wiring below
6) A cell value of 10 is neutral. Reduce the cell value to lean the mixture. Increase the cell value to make the mixture richer.
7) The highest cell value is 20.
8) Cell values can have one decimal place. For example 10.1. There are a total of 200 levels available for cell value
9) Program timing retard in Map table B
10) The cell values can range from 0 to 20. A value of 20 will result in 20 degrees of retard.
11) Cell values can have one decimal place. For example 10.1. There are a total of 200 levels available for cell value
12) Disconnect the battery before making connections to the factory wiring harness.
13) Connect the **RED** wire (B+) to the PK/WT wire on C-1 pin 12
14) Connect the **BLACK** wire (B-) to the BK/LG wire on C-1 pin 9
15) Cut the VT/BR MAP sensor wire leading from the stock MAP sensor to the ECU on C-2 pin 23
16) Connect the **VIOLET** wire to the VT/BR MAP sensor wire leading to the ECU on C-2 pin 23
17) Cut the BR/LB crank sensor wire leading to C-2 pin 35
18) Connect the **GRAY** wire to the wire leading to the crank sensor
19) Connect the **GRAY/BLACK** wire to the wire leading to the ECU crank sensor input
20) Cut the DB/LG cam sensor wire leading to C-2 pin 34
21) Connect the **TAN** wire to the wire leading to the cam sensor
22) Connect the **TAN/YELLOW** wire to the wire leading to the ECU cam sensor input
23) Connect the **YELLOW/BLACK** wire (tach) to the **BR/YL wire leading to C2 pin 14** wire
24) If you would like to control an external load with the R4 software connect the **ORANGE** wire as follows
25) Connect the **ORANGE** relay driver wire to the negative side of the relay coil
26) Connect the coil positive to a fused B+ circuit
27) Switch the load through the relay contacts
28) Set up the turn-on threshold for the relay under options, output settings and output B
29) The threshold can be set according to any combination of RPM and pressure set points
30) Reconnect the battery