

FTC1-002 Fuel and Timing Controller for Dodge V-10

Use and Installation Instructions:

- 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) Program the fuel in Map table A
- 4) Use the signal modify connection per wiring below
- 5) A cell value of 10 is neutral. Reduce the cell value to lean the mixture. Increase the cell value to make the mixture richer.
- 6) The highest cell value is 20.
- 7) Cell values can have one decimal place. For example 10.1. There are a total of 200 levels available for cell value
- 8) Program timing retard in map table B
- 9) The cell value represents the retard in degrees
- 10) A cell value of 0 programs no additional retard over the inherent 1.5 degrees
- 11) A maximum of 20 degrees is possible
- 12) Cell values can have one decimal place
- 13) There is no need to hook up a tach signal
- 14) The tach is derived internally from the crank signal
- 15) The wire harness that has the **GREEN, BLACK, GREEN/RED** and **BLACK/GREEN** wires is for the O2 sensor conditioning portion. Keep those wires separate during the following installation to avoid confusion over duplicate wire colors.
- 16) Connect the **RED** wire to battery plus switched by the ignition
- 17) Connect the **BLACK** wire to signal ground at the ECU
- 18) Cut the MAP signal wire leading to the ECU input
- 19) For signal modify mode, connect the **YELLOW** wire to the **GREEN** wire on the FTC module
- 20) Connect the **VIOLET** wire to the MAP input of the ECU
- 21) Cut the Crank sensor signal wire
- 22) Connect the **GRAY** wire to the wire leading to the crank sensor
- 23) connect the **GRAY/BLACK** wire to the wire leading to the ECU crank sensor input
- 24) Cut the cam sensor wire
- 25) Connect the **TAN** wire to the wire leading to the cam sensor
- 26) Connect the **TAN/YELLOW** wire to the wire leading to the ECU cam sensor input

Use and Installation Instructions (cont.):

- 27) O2 sensor conditioning is optional. To use, connect as follows
- 28) Cut the pre-cat O2 sensor wire
- 29) Connect the **GREEN** wire to the wire leading to the O2 sensor
- 30) Connect the **GREEN/RED** wire to the wire leading to the ECU O2 sensor input
- 31) If there is a second pre-cat O2 sensor, cut that wire
- 32) Connect the **BLACK** wire to the wire leading to the O2 sensor
- 33) Connect the **BLACK/GREEN** wire to the wire leading to the ECU O2 sensor input
- 34) The O2 sensor conditioning threshold is set under OPTIONS and OUTPUT B from the main menu