

FTC1-024 Fuel/Timing Calibrator for BMW E30 325i

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) Set for six cylinder and 4 stroke under engine settings
- 4) Program the fuel in Map table A
- 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 values can range from 0 to 20. A value of 20 will result in 20 degrees of retard.
- 10) Cell values can have one decimal place. For example 10.1. There are a total of 200 levels available for cell value
- 11) Disconnect the battery before making connections to the factory wiring harness.
- 12) Connect the **RED** wire (B+) to red/blue wire on ECU pin 37
- 13) Connect the **BLACK** wire (B-) to the brown wire on ECU pin 2
- 14) Connect the **BLACK/YELLOW** wire to the black/blue wire on ECU pin 6
- 15) Cut the grey/yellow AFM signal wire leading from the stock AFM to the ECU pin 7
- 16) Connect the **GREEN** wire to the side of the cut wire that leads to the AFM
- 17) Connect the **VIOLET** wire to the AFM signal wire leading to the ECU
- 18) Cut the black crank sensor wire leading to ECU pin 47
- 19) Connect the **YELLOW** wire to the cut wire leading to the crank sensor
- 20) Connect the **YELLOW/BLACK** wire to the wire leading to the ECU crank sensor input
- 21) Connect the **GRAY** wire to ground (the FTC1 black wire)
- 22) Leave the **GRAY/BLACK** disconnected
- 23) The **TAN** and **TAN/BLACK** wires are left disconnected
- 24) If your unit has the ESC (EGO Sensor Conditioner) function and you would like to use it, program the ESC threshold under the Options, Output Settings pull-down menus
- 25) Output B programs the ESC activation threshold
- 26) It may be programmed according to RPM, pressure or both
- 27) Cut the black O2 sensor wire leading to ECU pin 28
- 28) Connect the **WHITE** wire to the cut wire leading to the O2 sensor
- 29) Connect the **WHITE/GREEN** wire to the cut wire leading to the ECU O2 sensor input
- 30) Reconnect the battery