

**ZONE-5 PERFORMANCE PRODUCTS**

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The WOT breakpoint determines the point where the MAFterburner™ unit switches from using its internal closed-loop program to using its open-loop program. This value **MUST BE** determined for your specific vehicle! In order to determine the optimal WOT breakpoint value, the following procedure should be carefully executed:

1. With the key in the ON position but the engine NOT running, launch MAFCOMM™. When connected, start the Monitor utility by clicking on the 4th button from the left on the main taskbar. When the utility launches, click the "RUN" button. You will be asked if you want to log to a file. You do not have to log to a file in this instance so answer the question "NO".
2. With your foot off of the accelerator pedal, you should see the value in the box labeled "TPS Input Voltage" fall between 0-1V (this varies a lot from car to car). Now press the accelerator to the floor and record the value in the "TPS Input Voltage" box. This value should be between 4-5V.
3. Determine the optimum WOT breakpoint by subtracting 0.5V from the maximum TPS Input Voltage as recorded in step 2 above.
4. Close down the Monitor Utility by clicking "STOP" and then "QUIT".
5. Launch the Interactive Graphical Tuning utility by clicking on the third button from the left on the main taskbar (looks like a stereo graphic equalizer).
6. After the I.G.T. launches, go on-line by clicking on the "ONLINE" button. The program will respond by warning you that all "off-line" changes will be lost and asking you if you want to continue. As long as you haven't made any "off-line" changes during this session, answer YES.
7. Once on-line, using the slider labeled "WOT BREAKPOINT" in the upper right-hand corner of the screen, change the WOT Breakpoint voltage to the value you calculated in step 3 above.
8. When finished, click OFFLINE and QUIT to exit the Interactive Graphical Tuning utility or stay on-line and proceed to tune your vehicle.

**CAUTION: If the WOT Breakpoint voltage is too low, the PCM will attempt to adapt out the tuning changes that you make in the OPEN-LOOP TABLE. This occurs because the MAFterburner is using the OPEN-LOOP TABLE but the PCM is actually running in a closed-loop, adaptive operating strategy based on O2 sensor feedback.**

**Similarly, if the WOT Breakpoint is set too close to your vehicle's maximum TPS Voltage, the MAFterburner™ may switch back and forth between its OPEN-LOOP and CLOSED-LOOP tables. A 0.5V margin is recommended between your vehicle's maximum TPS voltage and the MAFteburner™'s WOT Breakpoint Voltage.**

If you have any further questions, please contact Technical Support at: (203) 257-6657 or [tech@mafterburner.com](mailto:tech@mafterburner.com). Thank you.