

## Custom Operating Systems

EFILive Custom Operating Systems Custom Operating Systems have been developed by EFILive to address tuning requirements that, until now, have not been possible. Custom Operating Systems are available free of charge for use by EFILive customers. Installing a Custom Operating System requires a full-reflash of the PCM into which the Custom Operating System is to be deployed. Full reflashing is only available with the Commercial and Workshop options. However, you can tune any pre-installed EFILive Custom Operating System with the EFILive Personal version. Speed Density mode is preferred by most tuners when tuning high performance engines with large camshafts or forced induction. The MAF is removed (or disabled) and the PCM is tuned using the MAP sensor instead. Unfortunately, when the MAF is disconnected the stock PCM has been designed to go into a semi-limp mode (operating from the low octane spark map only). EFILive's Speed Density Custom Operating System restores the high-octane spark map and full adaptive spark control, when operating in speed density mode. Valet Mode provides a secondary rpm and speed limit that you can program into your PCM. When you flip a hidden switch, connected directly to the PCM, the vehicle is restricted to the preset valet RPM and speed limits. (This option is not compatible with N2O Control) Two Step Launch Control is an adaptation of the Valet Mode RPM limiter. No need for add on boxes, use the PCM to accurately control launching (This option is not compatible with N2O Control). 2 and 3 bar Forced Induction extends the fuel and spark tables to allow the PCM total control over spark and fuel all the way to full boost. EFILive retains the standard fuel and spark tables for non-boost conditions retaining factory drivability and adds new tables for boost control. N2O Control monitors the N2O system and signals the PCM when it becomes active. Extra spark and fuel calibrations are available to modify the PCM's spark timing and fuel delivery immediately the N2O system is activated. (This option is not compatible with Valet Mode or Two Step Launch Control) Oztrack Tuning has created a video showing the features of EFILive's latest custom operating system. Its called OS5.

I have been using it my own car. Its great in a range of ways and newest feature is a special table that controls fueling by throttle position and rpm (below a specified MAP, RPM or Throttle percentage). Its much better for big cammed cars that jump around a lot in manifold pressure at idle and when transitioning to and from idle.

It also can specify the air fuel ratio at virtually any rpm and manifold pressure rather than just the usual closed loop 14.63:1 or power enrichment in one step. This means progressive fuelling.

The full range of features are displayed in the video at

[www.oztracktuning.com/videos/customos5.html](http://www.oztracktuning.com/videos/customos5.html) See the EFILive section of our shop at

<http://www.oztracktuning.com/shop/catalog/index.php?cPath=1>