



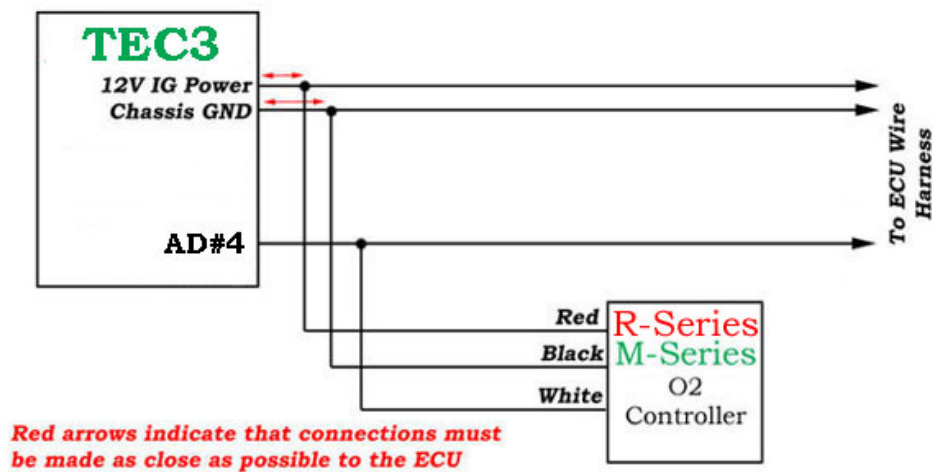
## Integration with Electromotive TEC3

PLXApp005 (V1.1) July 19, 2005

### Summary

This application note outlines the procedures for R-Series/M-Series linear wideband output signal integration with the [Electromotive](#) TEC3 Standalone Engine Management System. The Electromotive TEC3 will be capable of interpreting the precise air/fuel ratio with this setup.

### Connection Diagram



### Software Setup

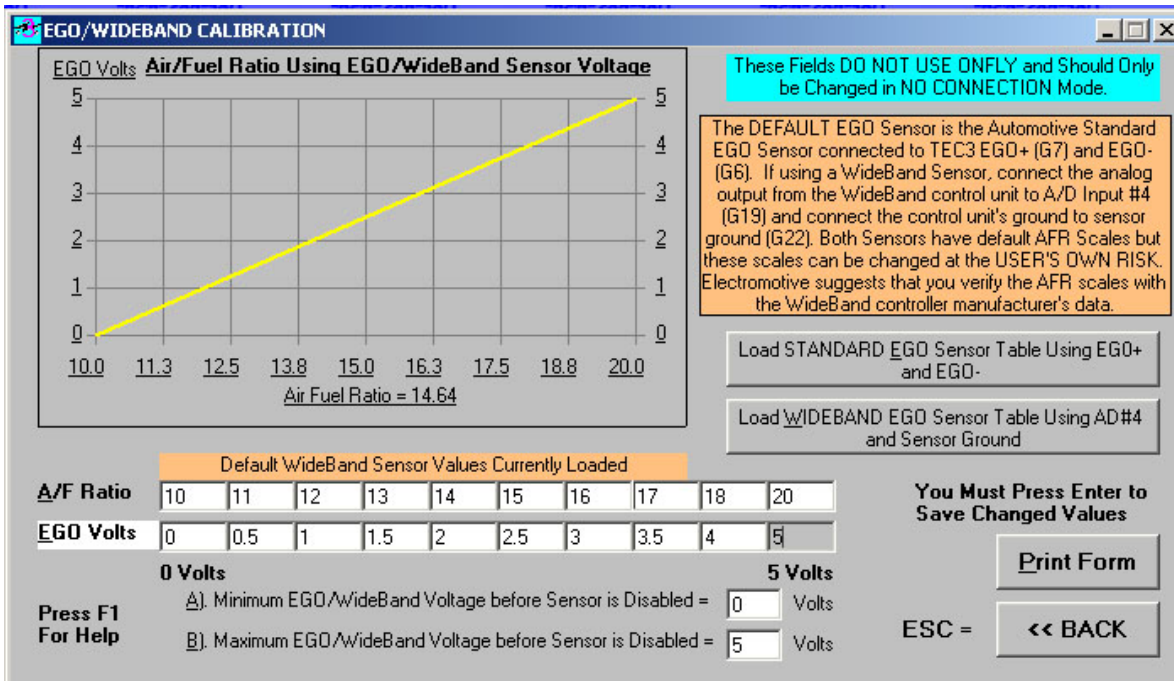
1. Start WINtec3 Total Engine Control software
2. Click "Edit a Calibration File" option
3. Select the calibration file you wish to use
4. Click "EGO/Wideband Air/Fuel Ratio Table" button
5. Click "Calibrate EGO Sensor" button
6. Click "Load WIDEBAND EGO Sensor Table Using AD#4" button
7. Enter the new R-Series/M-Series Wideband values in place of the previous values. See image below.

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## Special Considerations

Proper grounding of the R-Series/M-Series wideband controller to your vehicle's chassis ground near the ECU is essential to accurate measurements. If these precautions have already been taken and there are still discrepancies between the R-Series/M-Series digital display and the Electromotive TEC3 software, a small correction factor to the A/F Ratio table will alleviate the problem. This phenomenon is seen in all aftermarket wideband controllers and has been the result of many frustrated tuners. Here's how to resolve it.

Add a small value (typically between 0.1-0.3) from each value on the EGO Volts row ONLY. This shifts the entire graph down slightly allowing the TEC3 software and the R-Series/M-Series digital display to perfectly match. The correction factor will need to be individually determined with each application. Here's an example.

	Default WideBand Sensor Values Currently Loaded									
<b>A/F Ratio</b>	10	11	12	13	14	15	16	17	18	20
<b>EGO Volts</b>	0	0.4	0.9	1.4	1.9	2.4	2.9	3.4	3.9	4.9

**Subtracted 0.1V from EGO Volts Row**

## Authorized Dealer with Professional Experience

We highly recommend Sias Tuning for any related PLX wideband and Electromotive TEC3 application.



# Revision History

Version 1.0 (9/20/04)	Initial release
Version 1.1 (7/19/05)	Revised format to PDF Added R-Series support Sias Tuning Recommendation

