



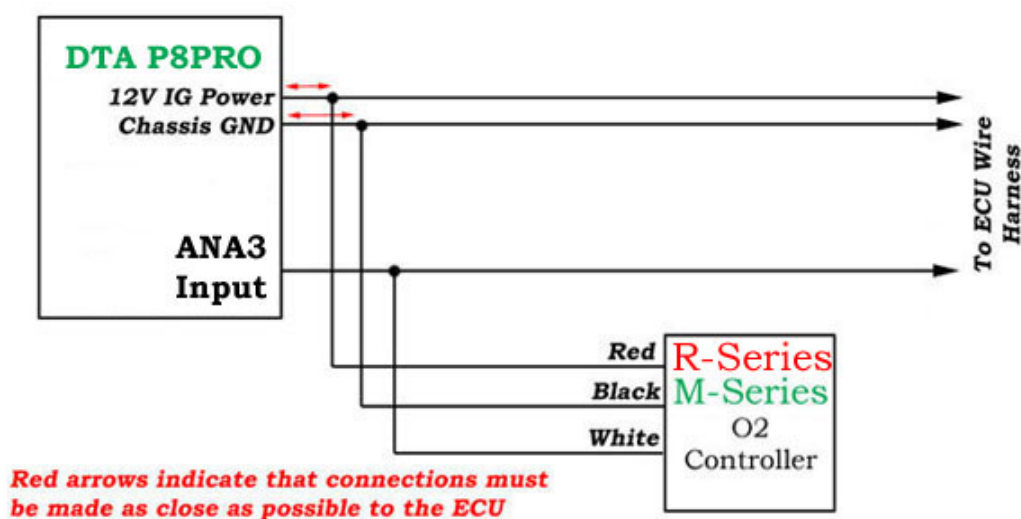
Integration with DTA FAST P8Pro

PLXApp007 (V1.1) July 19, 2005

Summary

This application note outlines the procedures for R-Series/M-Series linear wideband output signal integration with the [DTA FAST P8Pro](#) Standalone Engine Management System. The DTA FAST P8Pro will be capable of interpreting the precise air/fuel ratio with this setup.

Connection Diagram



Software Setup

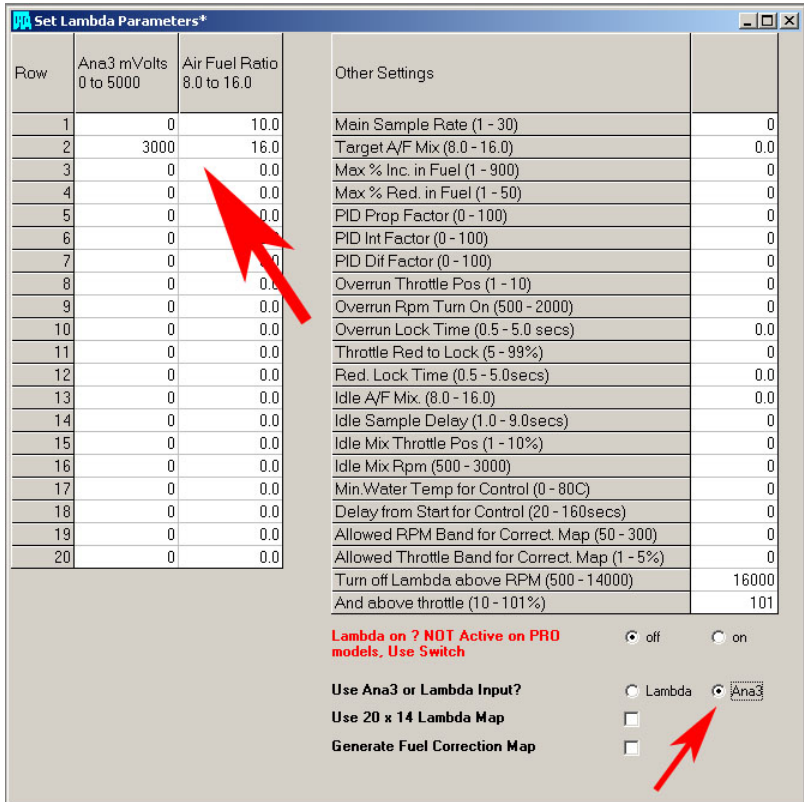
1. Launch DTAWin Software
2. Click on "Other Map Settings" -> "Lambda Settings"
3. On the lower right, select Ana3 input.
4. Setup the Volts and Air Fuel Ratio table as follows

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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 for accurate measurements. If these precautions have already been taken and there are still discrepancies between the R-Series/M-Series digital display and the DTA FAST P8PRO readout, a small correction factor to the AFR table will alleviate the problem. This phenomenon is seen in all aftermarket wideband controllers and have been a result of many frustrated tuners. Here's how to resolve it.

Subtract a fixed value (usually between 0.0 to 0.5) from the Air/Fuel Ratio column in each row. Once the R-Series/M-Series digital display and your DTA FAST P8PRO values match, your software setup is complete. The correction factor will need to be individually determined with each application. Here's an example.

Row	Ana3 mVolts 0 to 5000	Air Fuel Ratio 8.0 to 16.0
1	0	9.9
2	3000	15.9

Subtracted 0.1 AFR

Row	Ana3 mVolts 0 to 5000	Air Fuel Ratio 8.0 to 16.0
1	0	9.9
2	3000	15.7

WRONG!
Must use constant value.

Revision History

Version 1.0 (9/10/04)	Initial release
Version 1.1 (7/19/05)	Revised format to PDF Added R-Series support