



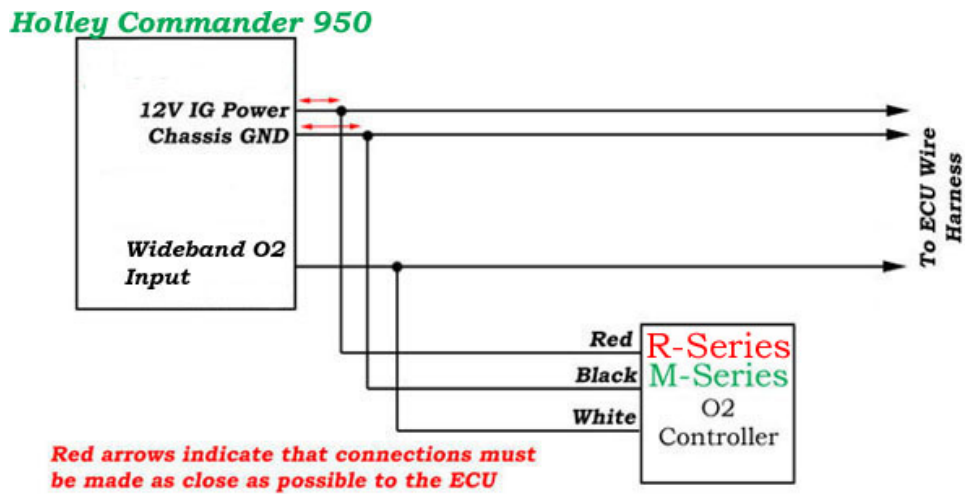
Integration with Holley Commander 950

PLXApp008 (V1.1) July 19, 2005

Summary

This app note outlines the procedures for R-Series/M-Series linear wideband output signal integration with the [Holley](#) Commander 950 Standalone Engine Management System. The Holley Commander 950 will be capable of interpreting the precise air/fuel ratio with this setup.

Connection Diagram



Software Setup

1. Open the "Closed Loop Parameters" window
2. On the bottom of the window, fill in the appropriate values in the "Air Fuel Ratio vs. Voltage" table to match the R-Series/M-Series output characteristics.

0.00	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.13	2.25	2.38	2.50	2.75	3.00	3.50	4.00
10.00	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.25	14.50	14.75	15.00	15.50	16.00	17.00	18.00

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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 Holley Commander 950 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 Volts row ONLY. This shifts the entire conversation table down slightly allowing the Holley Commander 950 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.

0.00	0.40	0.65	0.90	1.15	1.40	1.65	1.90	2.03	2.15	2.28	2.40	2.65	2.90	3.40	3.90
10.00	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.25	14.50	14.75	15.00	15.50	16.00	17.00	18.00

Revision History

Version 1.0 (10/8/04)	Initial release
Version 1.1 (7/19/05)	Revised format to PDF Added R-Series support