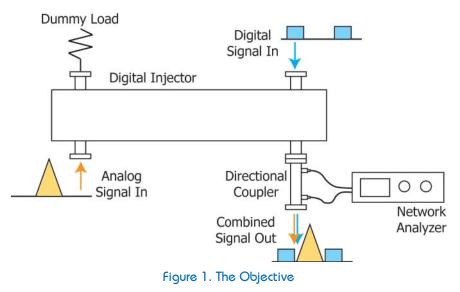
Shively Labs®

Optimizing High-Power Digital Injection Using the Shively Labs Fine-Matching Transformer

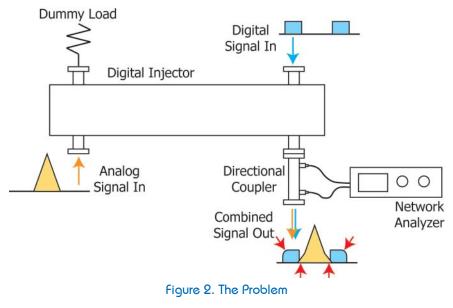
The objective:

(Figure 1) The analog and digital signals combine with a high degree of isolation.



The problem:

(Figure 2) Some manufacturers' injectors do not provide enough digital-to-analog or analog-to-digital isolation. The output signal is distorted, as shown by the red arrows.



(continued on next page)

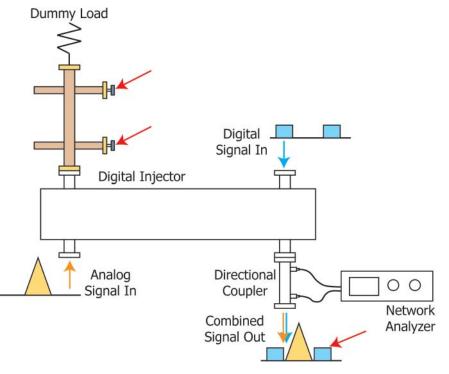
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The solution:

(Figure 3) Simply install a Shively Labs fine-matching transformer between the injector and the dummy load.



Adjust the transformer to correct the output signal!

Figure 3. The Solution