

SERVICE BULLETIN

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**Rich-Burn EPC Tuning
with IMPCO VariFuel
Carburetors**

Using the proper carburetor and jetting is imperative to proper Air/Fuel control and thus proper catalyst operation and emissions compliance. Varifuel carburetors (with the proper gas valves and gas jets) allow for a linear Air/Fuel mix throughout the engine load range, which also allows the EPC to function properly as a “trim” device without having to move the throttling valve to extremes with these load changes.

Tuning the IMPCO Varifuel Carburetors for use with the Altronic EPC Rich Burn Air/Fuel controllers can be made easier by using the recommendations in the Impco publication, “Large Engine Catalog for Varifuel Carburetors”. Recommendations for fuel pressure regulator settings and balancing are also included in this publication.

This publication has recommendations and part numbers for the proper “gas valves” and “gas jets” that are to be used in the 400 and 600 series IMPCO Varifuel carburetors based on the application (Lean/Rich/ Emissions Strategy). The IMPCO gas valves and jets are different for non-emissions engines vs. Catalytic Feedback applications where the Altronic EPC products are used. Since many engines will be converted to use a catalytic converter to achieve reduced emissions, using the proper gas valves and jets will also help to make the EPC product line easier to tune and perform to customer requirements. Highlighted pages from this catalog are attached, and the full catalog (132 pages) can be downloaded at:

<http://www.impcotechnologies.com/pdf/Large-Engine-Catalog.pdf>

