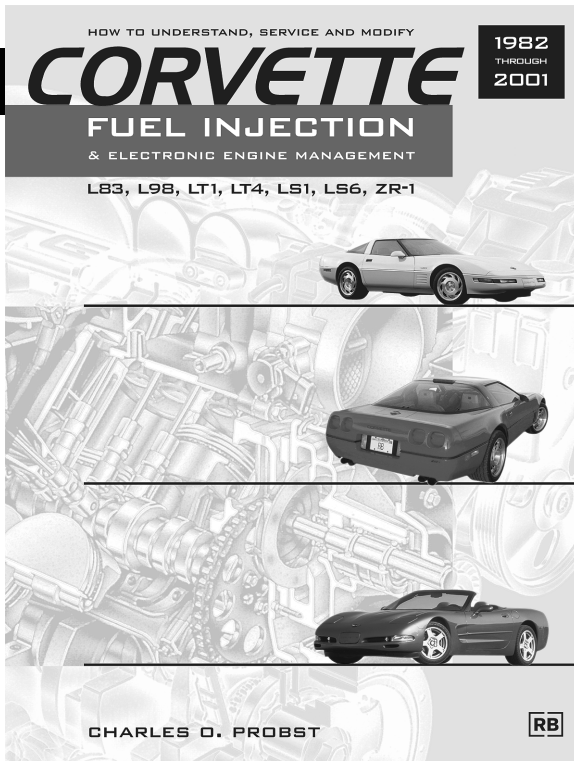


www.BentleyPublishers.com



Corvette Fuel Injection & Electronic Engine Management
 1982 through 2001: How to Understand, Service and Modify
 L83, L98, LT1, LT4, LS1, LS6, ZR1
 by **Charles O. Probst**

Retail Price: \$34.95
 Bentley Stock No: GFCV
 ISBN: 0-8376-0861-9
 398 pages, including 100 pages of wiring diagrams
 526 photos, illustrations & diagrams
 Softcover 8-3/8" x 11"



Fig. 9-1. For many, modifying your car for better performance is one of the great pleasures of owning a Corvette. Burnout (on top) and front-end lift (bottom) seem to spell "performance."

The engine is the heart of the Corvette and the heart of the Corvette engine is its electronic management system. **Corvette Fuel Injection & Electronic Engine Management** is the book that explains that system.

Chuck Probst, author of the authoritative Bentley books on Bosch and Ford fuel injection systems, worked with GM and aftermarket engineers, trainers, and technicians to bring the same sort of inside information to an authoritative understanding of Corvette engine controls. The comprehensive troubleshooting tips and service procedures presented here are a great aid in mastering Corvette engine control systems.

The book begins with a survey of the different fuel injection systems used in these cars: Throttle Body Injection (TBI), Multiport Fuel Injection (MFI), and Sequential Fuel Injection (SFI). Probst covers the reasons behind J1930 terminology (electrical/electronic systems diagnostic terms, definitions, abbreviations and acronyms) and the engine management concept of Open Loop and Closed Loop Operation. In addition, oxygen sensor and heated oxygen sensor operation, traction control, Exhaust Gas Recirculation (EGR), Air Injection (AIR), catalytic converters, evaporative controls, octane and fuel volatility are among the many thoroughly covered topics.

Probst's treatment of On-Board Diagnostics (OBD and OBD II) involves topics such as misfire detection, crankshaft position sensor operation, Mass Air Flow (MAF) sensor design, Electronic Spark Control (ESC), and Central Processing Unit (CPU).

No other book comes close in providing this much detailed, proven information, with 380 pages including 112 pages of model-specific wiring diagrams, trouble codes, and test specifications along with hundreds of photos and illustrations. Get it and go faster!

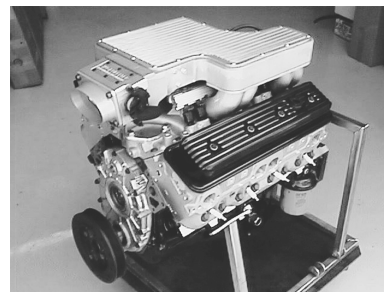


Fig. 9-8. You can buy a complete LT1 engine, about \$6600 and up, shown with an optional SuperRam intake system. Depending on the camshaft, it is certified 47/49-state street legal, E.O. #333. Individual parts may not be street-legal, but as a whole the engine performs within emission limits.

Chapters

- Overview
- Engine Control Fundamentals
- Emissions and Fuels Sensors - the Nerves
- Control Module - the Brain
- Actuators - the Muscles
- Fuel Delivery - "Circulatory System"
- Strategies
- Tuning
- Diagnosis
- Servicing
- Wiring Diagrams
- Index & Art Credits