

AVI ON DEMAND

ONLINE TECHNICIAN TRAINING

LBT-239: Gasoline Direct Injection

Gasoline Direct Injection offers a 15-20% increase in fuel economy, a 40% reduction in emissions, and a major increase in volumetric efficiency of the engine. Learn the latest in fuel trim data analysis with AVI instructor Bill Fulton in the new Gasoline Direct Injection Diagnostics class from AVI.

Bill covers the 5 operating modes of GDI, bi-directional controls, and critical labscope signals, as well as problems that can occur over time that you will need to service. Discover the differences between PFI (Port Fuel Injection) and GDI systems, and get an inside look with drivability case studies.

Also covered:

- * Comparing PDI and GDI
- * Low and High Side Components
- * GDI Lack of Power Complaints
- * Current Flow Demands from the Fuel Pump
- * and much more!

Runtime: 75 minutes



Supplements

- Testing Resources
- Manual
- Videos
- Discussion Forum
- Certificate

Topics Covered

- Cylinder Balance Test
- PFI Injector Patterns & Timing
- Low & High Side Components
- GDI Modes of Operation
- PSI Conversion
- Ford High Pressure Pump

- Ford Voltage Trace vs Amperage Trace
- Under the Hood of a 2011 Equinox
- Equinox Drivability Concerns
- Power Balance Test STFT & Lambda
- Current Flow Demands from the Fuel Pump