



## General Motors Duramax Diesel

This is the manual used in ATG Training Classes (Automotive Training Group).

### Overview

#### LB7, LLY, LBZ, & LMM Duramax Diesel Engines

- Class 2 Protocol (Language)
- GMLAN & Controller Area Network
- Gateway Modules
- Scan Tool Communication
- Mechanical Overview
- Air Intake Systems
- Intake Air Heater Variations
- Conventional & Variable Geometry Turbocharger
- Glow Plug Systems & Generational Changes (Relay or Module)
- Fuel System Overview
  - High, Low, & Return Systems
  - Common Rail Fuel System
  - Pilot injection
- Injector Variations & Flow Rate Programming
- Diesel Emissions Systems
  - Crankcase Ventilation (Open & Closed Systems)
  - Exhaust Gas Recirculation (EGR) – California
  - Catalytic Converters
  - Diesel Particulate Filter, Soot Loading & Regeneration
- Accessory Systems
  - Fuel Operated Heater (RPO K08)
- Reference Information in Each Section
  - Bulletin Summary & Recommended Tools
  - Wiring Diagrams
  - Scan Tool PIDs Definitions

#### Duramax Diagnostics

- Diesel Fuel
- Diagnostic Strategy
- Diagnostic System Check
- Trouble Codes
- Symptom Diagnostics
- Fuel System Diagnostics