



# DIAGNOSING ENGINE MECHANICAL ISSUES

PRESSURE TRANSDUCER WAVEFORM TECHNIQUES

*WITH BRANDON STECKLER*

Is the engine experiencing compression or breathing issues?  
Using oscilloscopes and pressure transducers to accurately  
diagnose mechanical conditions without disassembly.

- **Does the Engine Have a Compression / Breathing Issue?**
  - Oscilloscope and pressure transducer tooling to accurately diagnose mechanical conditions
  - Compression, valve timing, variable valve timing issues, variable valve lift, flat cam lobes, etc.
- **Accurately Diagnose Engine Mechanical Issues Without Disassembly**
- **Skills and Techniques to Capture Pressure Waveforms (Intake Manifold, Tailpipe & In-cylinder)**
- **In-Cylinder Pressure Transducer Operation and Waveform Analysis**
- **Lift and Timing Issues Can Increase Compression Readings**
- **Diagnostic Process - Real World Examples and Case Studies**

**SATURDAY • 3/15/25**

**8:00 AM - 5:00 PM**

**CLASS ID: SEM1910**

**\$385 / STUDENT**

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