



# Outside the Box Diagnostic Routines - Chopping Down the Trouble Tree Chart



*Instructor:*

**Adam Robertson**

**Tired of being led astray by factory flowcharts and parts-swapping guesswork?**

A smorgasbord of “wicked cool” diagnostic routines.

- *Developing an Efficient and Accurate Approach to Network Issues – Understanding “Protocol Rules” and the Difference Between Being “Bent and Broken”*
- *Using Current (Amps) as a First Diagnostic Step to Reveal Circuit Issues Without Disassembly – Including Fast Fuse Checks (Mind Blower) and Power Window Testing*
- *Breaking Down NVH Using Frequency-Based Analysis to Identify Vibrations and Rattles With Precision*
- *Lab Scope Operation Beyond the Basics – Ultra-Low-Pass Filters, Zoom Techniques, and Waveform Tricks to Uncover Intermittent Issues*
- *Finding Elusive Connection Problems With Milli-Ohm Meters and Graphing Resistance – An Underused but Game-Changing Approach*
- *Pinpointing Misfires Using Crank Sensor Signals – Covering Both VR/MR and Hall-Effect/Magneto Resistive Designs*
- *All Scan Tools Are Liars Until We Prove They Are Telling the Truth – How to Verify Tough Data Like Ignition and Injector Timing*
- *Pairing Lab Scopes With 3rd Party Tools Like Power Probes, Signal Generators, and Circuit Testers for Next-Level Diagnostics*

This isn't a checklist of textbook tests - it's a mindset shift, grounded in real-world techniques and your only limit is your imagination.

**Wed 12/10/25  
& Thu 12/11/25**

**6pm to 8pm**  
*Pacific time zone*

*Code:* **OLT481**  
*Cost:* **\$150 USD**  
*Per Student*



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