



Clicks usually  
low voltage or  
poor  
connections

# OUTSIDE THE BOX DIAGNOSTIC ROUTINES

## CHOPPING DOWN THE TROUBLE TREE CHART

WITH 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-8PM PST**  
**CLASS ID: OLT481**  
**\$150 USD / STUDENT**

