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Coding Information

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Title: PicoScope Test Resistance and Ohmmeter

Applies To: All International / IC and Other Makes & Models

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

08/19/2022 - Initial Article Release

DESCRIPTION

This procedure was created to guide a technician through diagnostic steps when checking electrical circuits for an open or resistance (ohms) concerns.

SYMPTOM(s)

Open circuit(s), low or high resistance, short to ground, open diodes

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
PicoScope	1211210		
Pico Resistance Probe	TA432		

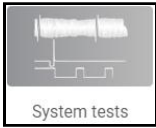


DIAGNOSTIC STEP(s)

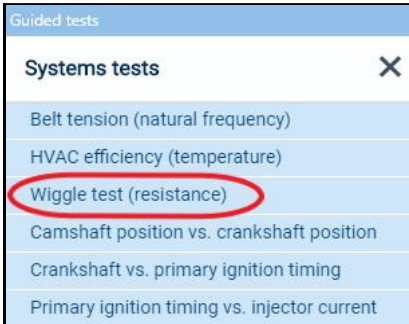
1. Open PicoScope software.



2. Open System Tests.

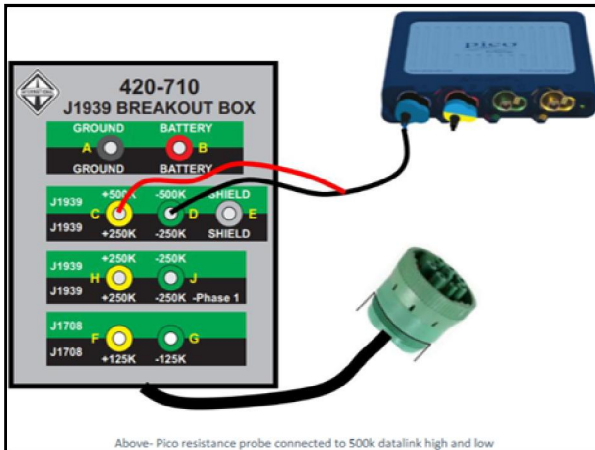


3. Open Wiggle Test (Resistance).



4. Connect PicoScope and probes to the electrical circuits in question.

Note: When diagnosing datalink concerns (resistance check) ensure the batteries are disconnected.



5. To begin operation move your cursor and tap on **RUNNING**.



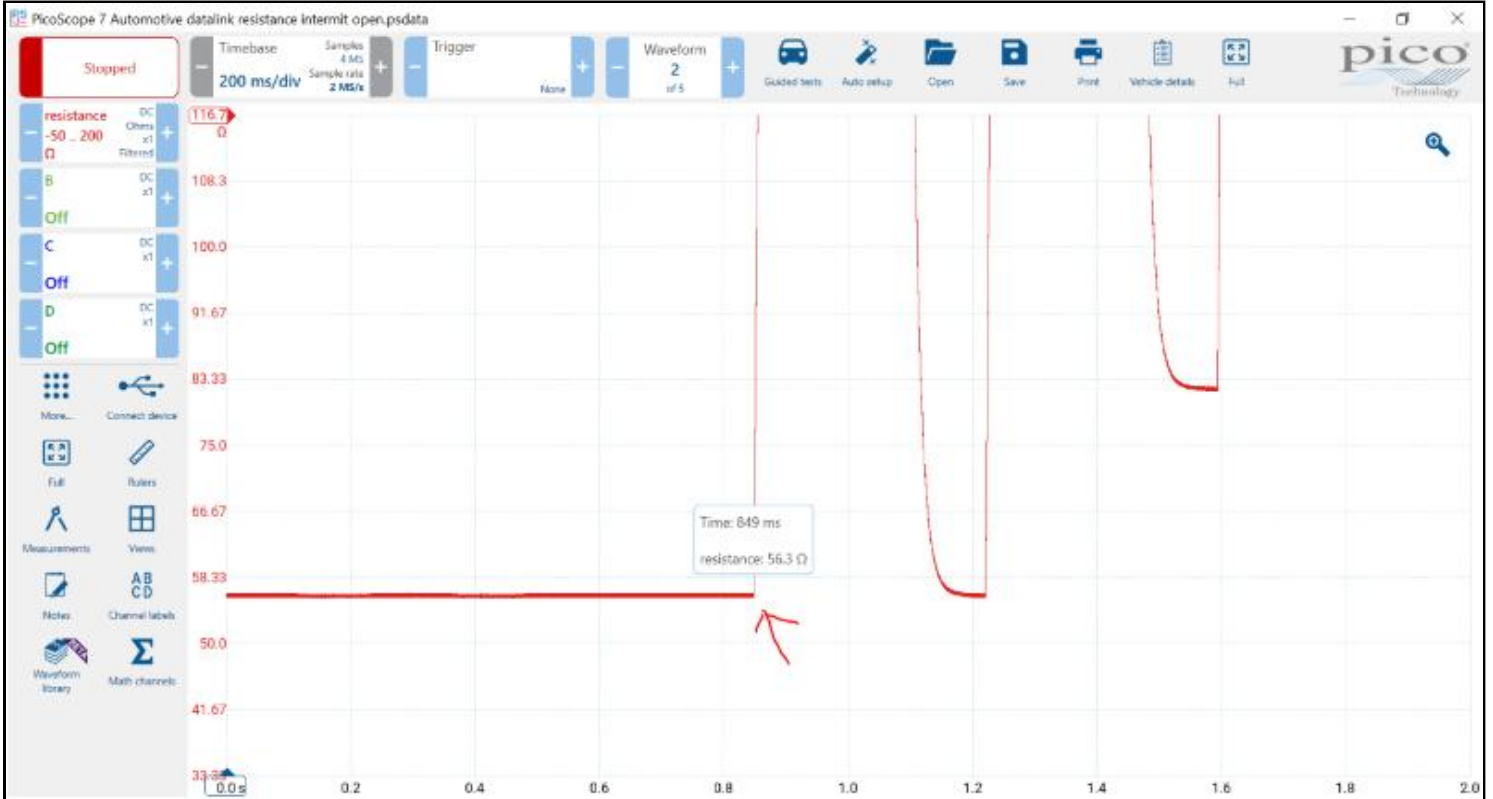
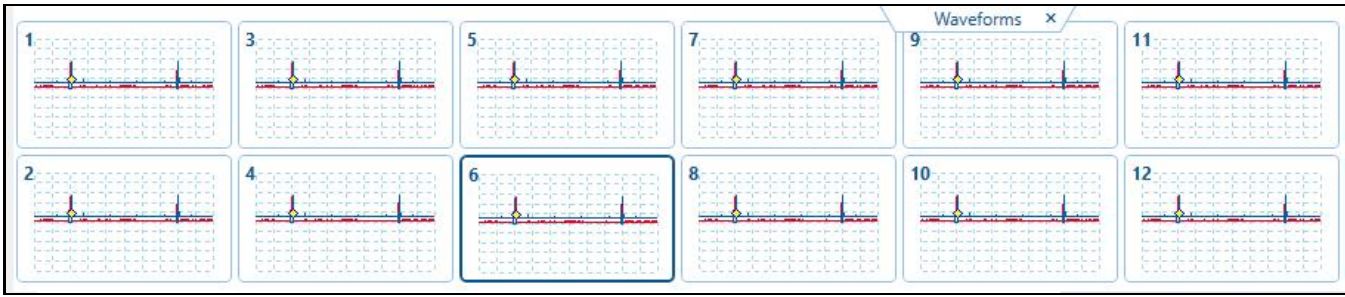
6. Reproduce the concern by disconnecting modules, wiggle testing a wiring harness or road-testing a vehicle. After the concern has been identified move your cursor and tap on **STOPPED**.



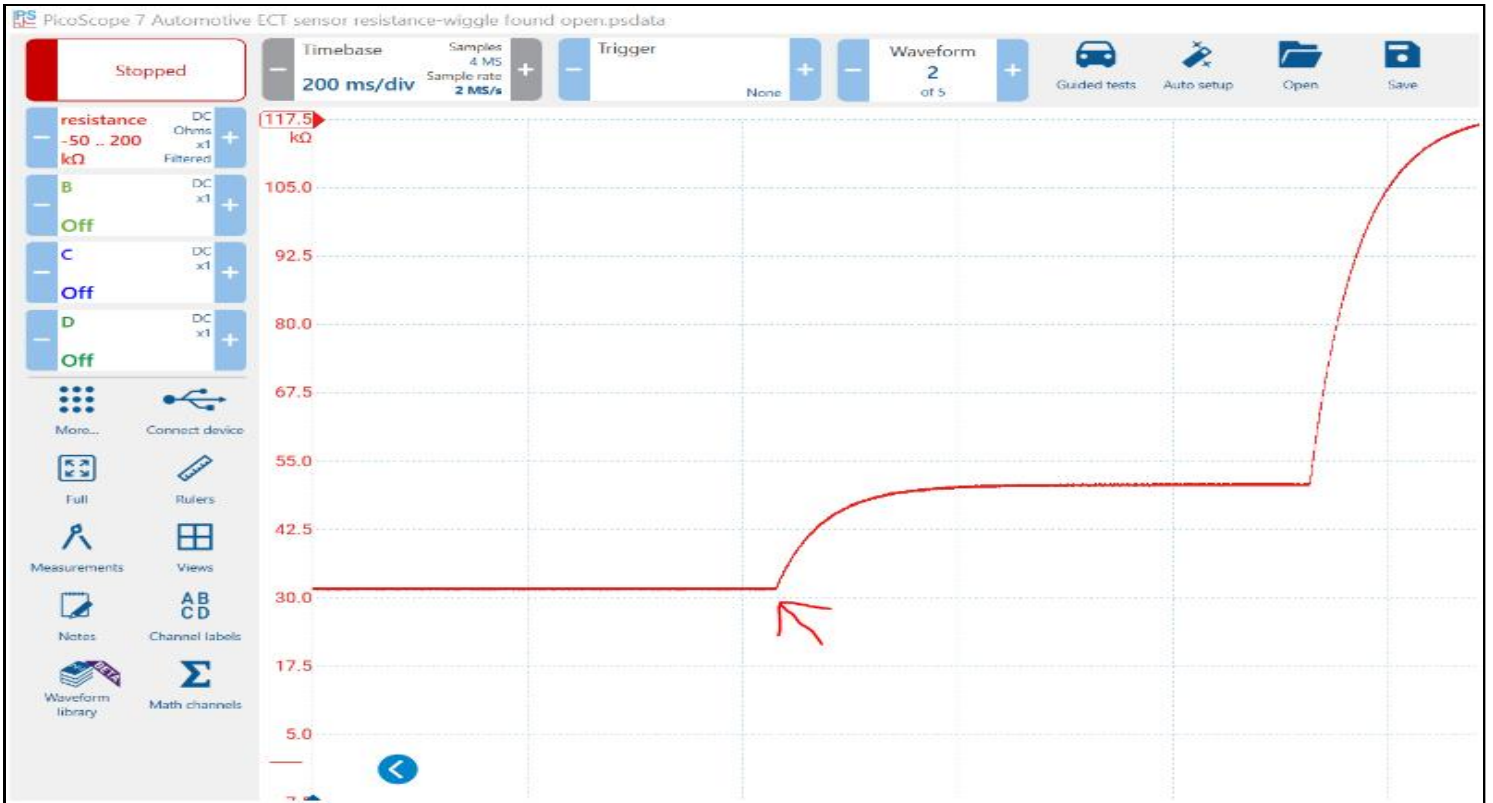
7. Review recordings tap on **WAVEFORM** see examples below.

DATA ANALYSIS

Review each recording to help identify when a concern occurs by expanding out each graph and adjusting **time and division**.



Datalink resistance is being measured. A wiggle test is performed and the circuit becomes open where the arrow indicates



A coolant sensor resistance is tested at the ECM connection & the harness is wiggled. The resistance spikes up as a bad connection is revealed

WARRANTY INFORMATION

Warranty Claim Coding:

Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times if none are present refer to T-time policy.

OTHER RESOURCES

[Master Service Information Site](#)

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