Case Step 5 – The Test List

getting started · https://www.diagnostic-assistance.com/docs/case-step-5-the-test-list/

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FIND IT

Cases → open your case → **Step 5, Test List**

TL;DR

Each line is a complete test instruction: what to measure, when, where, and with what tool.

What this step is for

You picked an element at Step 4. There is usually more than one way to test it, and the ways are not equivalent. Step 5 lists the tests DAVO holds for that element and lets you choose the one that fits the vehicle in front of you and the equipment on your bench.

Reading the test specification

Every test has four key fields. These are the **4 Rights**, and they are what turns a vague instruction like "check the sensor" into something two technicians would perform identically.

Field	The Right	What It Means
Test Name	Right Thing	What you are measuring, for example solenoid resistance, supply voltage
Test State	Right Time	Vehicle condition during the test: engine off, running, cranking
Test Location	Right Way	Where to connect: at the component, at the controller, in the harness
Connection Type	Right Tool	How to connect your instrument: multimeter, oscilloscope, and so on

CRITICAL CONCEPT

A test only has a valid expected value when ALL 4 Rights are met.

This is the single most important idea in DAVO, so it is worth spelling out. "4.7 ohms" is not a specification. "4.7 ohms, measured across the solenoid, at the component connector, engine off, with a multimeter" is a specification. Change any one of those four conditions and the number you should expect changes with it.

It follows that two tests on the same element with different Test States are genuinely different tests, and you cannot judge one against the other's expected value.

Choosing between tests

Where several tests are offered for one element, pick on these grounds:

- **Equipment you actually have.** A waveform test is no use without a scope.
- **Access.** A test at the controller may be reachable when a test at the component is buried.
- **What the hypothesis needs.** A supply voltage test and a resistance test answer different questions. Pick the one that would actually confirm or eliminate the failure you are chasing.

➡ DO THIS

1. Review the available tests for your selected element.
2. Read all four fields on each candidate test, not just the test name.
3. Choose the test you can perform properly with the equipment and access you have.
4. Continue to Step 6 to see the reference data and run it.

STUCK?

No test listed for this element. The element exists but no characteristic has been authored for it yet on this standard. Go back to Step 4 and choose another element.
You cannot meet the Test State. If the test calls for the engine running and the vehicle will not start, that test is not available to you. Choose a test with a state you can achieve, rather than running it under different conditions and comparing to the wrong expected value.

Next

→ **Case Step 6, Test Execution:** the reference images, waveforms and expected values for the test you chose.