



MODEL PVA-1 PEAK VOLTAGE / DVA CONVERTER

General

The PVA-1 enables most Digital Multimeters (DMM's) to read Peak Voltage outputs, also called DVA readings, on marine ignition systems.

The PVA-1 has been tested extensively with our 732 and CT8017 as well as a broad range of Fluke and similar DMM's. Erratic readings may result from use with an inexpensive, insufficiently shielded DMM.

The PVA-1 is used primarily to detect "total failure" components resulting from shorts or open circuits, but it is also an effective indicator of high or low outputs.

Readings with the PVA-1 mimic, as nearly as possible, those of the Stevens Model CD-77 analog Peak Voltmeter but may vary somewhat in isolated cases. Such variations will normally be lower than true readings, thus avoiding indications of "good" on a bad system.

Setup

Select DC Volts on the DMM and choose either Autorange or a selected range sufficient to read the anticipated voltage.

Plug the PVA-1 into the DMM input jacks, **red to Volts, black or unmarked to Common.**

Plug the tester leads into the PVA-1 input jacks, **black to black (COM)** and **red to the first red jack (PEAK DVA).**

Testing

Test leads can now be used to check ignition components according to the engine service literature. If instructions call for a negative meter setting, connect the test leads backward (red to ground and black to test point).

Failure to reverse the leads can produce a reading that appears normal when the required output has not been tested at all.

Using the Optional Red Jack

The second red jack (LOW VOLT OPTION) is *never* used to read Charge Coil or Pack outputs.

For Sensor or Trigger outputs, use the first red jack, same as for Charge Coils & Packs. However, if the reading is less than 1 ½ volts, take another reading using the optional red jack (LOW VOLT OPTION). Use the lower of the two readings to determine whether Sensor or Trigger output is within spec.