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LOADpro 181

Electronic Specialties LOADpro 181 Dynamic Test Lead User Manual

Model: 181

Introduction

The LOADpro Dynamic Test Lead is designed to perform voltage drop tests efficiently. It integrates with your existing Digital Multimeter (DMM) to diagnose electrical circuit issues. When activated on a 12 Volt system, the LOADpro applies a controlled load of approximately 0.5 Amps across the circuit. This dynamic testing method helps identify problems such as corroded wires, faulty connections, and shorts to ground that might not be apparent with standard multimeter readings.

Package Contents

- LOADpro Dynamic Test Leads (Model 181)
- Fundamental Electrical Troubleshooting Book (200 pages)



Image: The LOADpro 181 Dynamic Test Lead set, including the red and black test leads with steadypin probe tips, and the accompanying Fundamental Electrical Troubleshooting Book.

Setup Instructions

1. **Connect to DMM:** Insert the banana plugs of the LOADpro test leads into the corresponding input jacks of your Digital Multimeter (DMM). Ensure the red lead is connected to the positive (+) or voltage input, and the black lead to the common (-) input.
2. **Select DMM Function:** Set your DMM to the appropriate voltage measurement range (e.g., DC Volts).
3. **Probe Tips:** The LOADpro features steadypin probe tips for secure and stable contact during testing.



Image: A close-up view of the LOADpro test leads, highlighting the connection points and the steadypin probe tips, ready for use with a DMM.

Operating Instructions

The LOADpro simplifies voltage drop testing by applying a load to the circuit, revealing hidden resistance issues.

1. **Initial Voltage Measurement:** With the LOADpro connected to your DMM and the DMM set to measure DC Volts, connect the probe tips across the circuit or component you wish to test. Observe the initial voltage reading without applying a load.
2. **Apply Load:** While maintaining contact with the circuit, press and hold the switch on the LOADpro test lead. This action applies a load of approximately 0.5 Amps across the circuit.
3. **Observe Voltage Drop:** Monitor the voltage reading on your DMM while the load is applied. A significant drop in voltage (compared to the initial reading) indicates excessive resistance in the circuit, often due to corrosion, loose connections, or other faults.
4. **Interpret Results:** The voltage drop observed under load provides a more accurate assessment of circuit integrity than unloaded voltage checks. Refer to the included Fundamental Electrical Troubleshooting Book for detailed interpretation guidelines and diagnostic procedures.

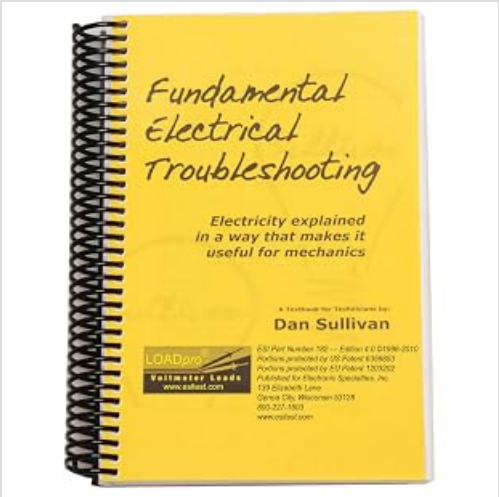

Image: An illustration showing a technician using the LOADpro test leads to perform a voltage drop test on an automotive electrical system, demonstrating the practical application of the tool.

Maintenance

- **Cleaning:** After each use, wipe the test leads and probe tips with a clean, dry cloth to remove any dirt, grease, or contaminants. Avoid using harsh chemicals or abrasive materials.
- **Inspection:** Regularly inspect the test leads for any signs of damage, such as frayed insulation, cracked connectors, or bent probe tips. Do not use damaged leads.
- **Storage:** Store the LOADpro test leads in a clean, dry environment, away from direct sunlight and extreme temperatures. Keep them coiled neatly to prevent tangling and damage.

Troubleshooting

The LOADpro is designed to assist in diagnosing electrical issues. If you encounter unexpected readings or difficulties, consider the following:

- **No Reading on DMM:** Ensure your DMM is properly connected, powered on, and set to the correct measurement function (DC Volts). Check the DMM's fuses if it has no display.

- **Inconsistent Readings:** Verify that the probe tips are making solid contact with the test points. Clean any corrosion from the test points if necessary.
- **Interpreting Voltage Drop:** A significant voltage drop under load (when the LOADpro switch is pressed) indicates high resistance in the circuit. This could be due to corroded connections, damaged wiring, or a faulty component.
- **Refer to Book:** For comprehensive electrical troubleshooting guidance, consult the included Fundamental Electrical Troubleshooting Book. It provides detailed procedures and diagnostic charts.

Specifications

Model Number	181
Brand	LOADpro
Product Dimensions	25 x 4 x 6 cm
Item Weight	0.4 Kilograms
Minimum Operating Voltage	12 Volts
Maximum Operating Voltage	12 Volts
Measurement Type	Multimeter (used with)
Color	Red, Black
Certifications	CE, RoHS
Included Components	LOADpro Test Leads, Fundamental Electrical Troubleshooting Book

Warranty Information

The Electronic Specialties LOADpro 181 Dynamic Test Lead comes with a**1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product functions as intended under normal use. Please retain your proof of purchase for warranty claims.

Support

For technical assistance, product inquiries, or warranty claims, please contact Electronic Specialties directly. The manufacturer's contact information is: GENOA CITY, WI, 53128 US.
For purchase-related issues or returns, please contact the seller, NelsonLife, through your original point of purchase.

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