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› Actron CP7665 AutoAnalyzer - Digital Automotive Multimeter, Orange

Actron CP7665

Actron CP7665 AutoAnalyzer - Digital Automotive Multimeter

Model: CP7665

1. PRODUCT OVERVIEW

The Actron CP7665 AutoAnalyzer is a versatile digital automotive multimeter designed for comprehensive electrical testing. It facilitates quick diagnosis and repair of electrical problems in both on-car and on-bench applications. This unit is capable of measuring AC/DC voltage, DC current, and resistance, and can be used to test various automotive components such as diodes, batteries (1.5V, 9V, 12V), fuses, switches, solenoids, and relays.

Key features include automatic polarity sensing to prevent incorrect lead hook-ups, automatic zero adjustment for accurate measurements, and a 10 M Ω input impedance suitable for sensitive automotive computer circuits. The device also features an easy-to-read backlit LCD display for use in various lighting conditions, a data hold button, overload protection, and a low battery indicator.



Figure 1: Actron CP7665 AutoAnalyzer with included color-coded test leads and alligator clips.

2. PACKAGE CONTENTS

Upon opening the package, verify that all the following items are present:

- Actron CP7665 AutoAnalyzer Digital Automotive Multimeter
- Color-coded Test Leads (Red and Black)
- Alligator Clips
- Foldout Stand (integrated)
- Quick Start Guide
- Information on downloading the comprehensive usage manual

Note: A 9-volt battery is required for operation and is not included in the package.



Figure 2: Front panel of the Actron CP7665 AutoAnalyzer, showing the LCD display, rotary dial, and input jacks.

3. SETUP

3.1 Battery Installation

1. Locate the battery compartment cover on the back of the AutoAnalyzer.
2. Use a small screwdriver to remove the screw securing the battery cover, then carefully remove the cover.
3. Connect a new 9-volt battery to the battery clip, ensuring correct polarity (+ to + and - to -).
4. Place the battery into the compartment and replace the cover, securing it with the screw.
5. The low battery indicator will illuminate on the LCD display when the battery needs replacement.

3.2 Connecting Test Leads

The AutoAnalyzer comes with color-coded test leads (red and black) and detachable alligator clips. Ensure proper connection for accurate and safe measurements.

- Insert the black test lead into the "COM" (Common) input jack.
- Insert the red test lead into the "V2126mA" input jack for voltage, resistance, and current measurements up to 200mA.
- For current measurements up to 10A, insert the red test lead into the "10A MAX" input jack.
- Attach the alligator clips to the test lead probes if needed for hands-free testing.

4. OPERATION

This section details the general operation of the Actron CP7665 AutoAnalyzer for various measurement types.

4.1 Powering On/Off and Display Features

- To power on the device, rotate the central dial from the "OFF" position to any desired measurement function.
- To power off, rotate the dial back to the "OFF" position.
- The backlit LCD display can be activated by pressing the **light bulb icon button** for improved visibility in low-light conditions.
- Press the **HOLD button** to freeze the current reading on the display. Press it again to release the hold function.

4.2 Selecting Measurement Function and Range

Rotate the central dial to select the desired measurement function (e.g., V~ for AC Voltage, V-- for DC Voltage, 2126 for Resistance, A-- for DC Current, Diode, or Battery Test). The AutoAnalyzer features 19 ranges, and automatic zero adjustment ensures accurate readings for volts, amps, and battery tests.

4.3 Measuring Voltage (AC/DC)

1. Connect the black lead to "COM" and the red lead to "V2126mA".
2. Rotate the dial to the appropriate voltage range: V~ for AC voltage or V-- for DC voltage.
3. Touch the test probes to the points where voltage is to be measured. The reading will appear on the LCD.
4. The unit features automatic polarity sensing for DC voltage, so reversed lead hook-ups will not damage the device, but will show a negative sign.

4.4 Measuring DC Current

1. For currents up to 200mA, connect the black lead to "COM" and the red lead to "V2126mA". For currents up to 10A, connect the red lead to "10A MAX".
2. Rotate the dial to the appropriate **A--** (DC Current) range.
3. Break the circuit and connect the multimeter in series with the circuit to measure current flow.

4.5 Measuring Resistance (Ohms)

1. Connect the black lead to "COM" and the red lead to "V2126mA".
2. Rotate the dial to the **2126** (Ohms) range.
3. Ensure the circuit or component is de-energized before measuring resistance.
4. Touch the test probes across the component to measure its resistance.

4.6 Testing Diodes and Batteries

- Rotate the dial to the **Diode symbol** for diode testing.
- Rotate the dial to the **1.5V, 9V, or 12V** settings for specific battery tests.
- Follow the instructions in the comprehensive usage manual for detailed testing procedures for these components, as well as fuses, switches, solenoids, and relays.

Important: The 10 M2126 input impedance is crucial for proper testing of sensitive automotive computer circuits, preventing damage to delicate electronic components.

5. MAINTENANCE

5.1 Cleaning

To clean the AutoAnalyzer, wipe the casing with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the plastic components or the display. Ensure the device is powered off and test leads are disconnected before cleaning.

5.2 Storage

When not in use for extended periods, it is recommended to remove the 9-volt battery to prevent leakage and potential damage to the device. Store the AutoAnalyzer and its accessories in a cool, dry place, away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Actron CP7665 AutoAnalyzer.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No display or faint display after battery installation.	◦ Battery not installed correctly. ◦ Battery is dead or low. ◦ Battery contacts are dirty or corroded.	◦ Ensure the 9-volt battery is inserted with correct polarity. ◦ Replace the 9-volt battery with a new one. ◦ Clean battery contacts with a pencil eraser or cotton swab.
Incorrect or unstable readings.	◦ Incorrect function or range selected. ◦ Poor connection of test leads. ◦ Overload condition.	◦ Verify the rotary dial is set to the correct measurement type and range. ◦ Ensure test leads are fully inserted into the correct input jacks and have good contact with the circuit. ◦ Check for overload protection activation; remove probes from circuit and re-test with appropriate range.
Backlight not working.	◦ Backlight button not pressed. ◦ Low battery.	◦ Press the light bulb icon button to activate the backlight. ◦ Replace the 9-volt battery.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	CP7665
Measurement Type	Digital Multimeter
Functions	AC/DC Voltage, DC Current, Resistance, Diode Test, Battery Test (1.5V, 9V, 12V)
Input Impedance	10 M2126
Ranges	19
Display	Backlit LCD
Power Source	9-volt battery (not included)
Color	Orange
Item Weight	11.1 ounces
Safety Standard	ETL

8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your purchase or visit the official Actron website. Actron provides a comprehensive downloadable usage manual with extensive testing procedures and tips,

available in English, Spanish, and French. This manual offers in-depth guidance beyond the scope of this quick start guide.

For technical support or further assistance, please contact Actron customer service through the channels provided in the comprehensive manual or on their official website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question