

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [GOLDCHAMP](#) /
- › [GOLDCHAMP GC-36D Digital Capacitance Meter User Manual](#)

GOLDCHAMP GC-36D

GOLDCHAMP GC-36D Digital Capacitance Meter

User Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of the GOLDCHAMP GC-36D Digital Capacitance Meter. This portable device is designed for precise digital measurement of capacitance, suitable for identifying unknown capacitance values and testing capacitors in cables, switches, and PCB circuits. Please read this manual thoroughly before operation.

2. SAFETY INFORMATION

Always observe basic safety precautions when using electrical testing equipment to reduce the risk of fire, electric shock, or personal injury. Keep the device dry and clean. Do not attempt to measure live circuits or capacitors that are not fully discharged. Ensure the battery compartment is securely closed during operation.

3. PRODUCT OVERVIEW

Familiarize yourself with the components of your GOLDCHAMP GC-36D Digital Capacitance Meter:



Image 3.1: Front panel layout of the GOLDCHAMP GC-36D Digital Capacitance Meter, showing the LCD display, Data-Hold button, Backlight button, Function Switch, ZERO adjustment knob, and Cx+, Cx- Input Jacks.

- **LCD Display:** Shows measurement readings and indicators.
- **Data-Hold Button:** Freezes the current reading on the display.
- **Backlight Button:** Activates the display backlight for improved visibility in low-light conditions.
- **Function Switch:** Used to select the desired capacitance measurement range or turn the device off.
- **ZERO Adjustment Knob:** Used to zero out residual capacitance before measurement.
- **Cx+, Cx- Input Jacks:** Connectors for the test leads.

4. SETUP

4.1 Battery Installation

The GOLDCHAMP GC-36D requires one 9V (6F22) battery for operation. To install or replace the battery:

1. Ensure the device is turned off.
2. Locate the battery compartment on the back of the meter.
3. Open the battery cover.

4. Insert a new 9V battery, observing the correct polarity (+/-).
5. Close the battery cover securely.

9V Battery, With Stand Mount



Image 4.1: Rear view of the GOLDCHAMP GC-36D showing the battery compartment and the integrated stand. An inset image demonstrates the insertion of a 9V battery.

4.2 Connecting Test Leads

Connect the red test lead to the Cx+ input jack and the black test lead to the Cx- input jack. Ensure a firm connection for accurate readings.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Rotate the Function Switch from the "OFF" position to any desired measurement range to power on the device. To power off, rotate the Function Switch back to the "OFF" position.

5.2 Zero Adjustment

Before measuring, especially for small capacitance values, it is recommended to zero the meter. With the test

leads disconnected from any component, select the desired range and rotate the ZERO adjustment knob until the display reads "000" or as close to zero as possible.

5.3 Selecting Measurement Range

The Function Switch allows selection of various capacitance ranges. Choose a range that is appropriate for the capacitor being measured. If the capacitance value is unknown, start with a higher range and decrease it until a stable and accurate reading is obtained.

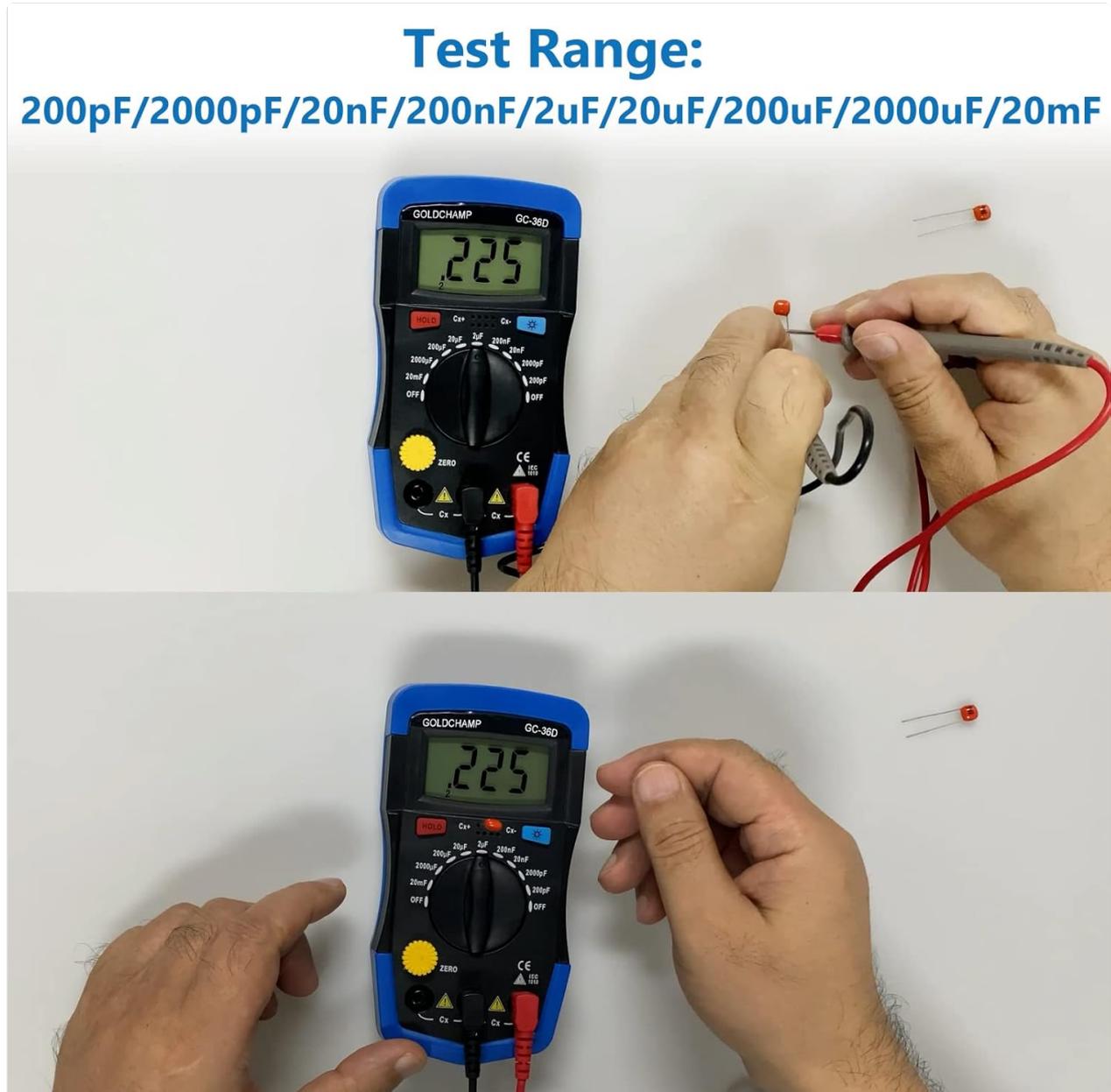


Image 5.1: The GOLDCHAMP GC-36D Digital Capacitance Meter displaying a measurement, illustrating the test range capabilities from 200pF to 20mF.

Available ranges include:

- 200pF
- 2000pF
- 20nF
- 200nF
- 2uF
- 20uF

- 200uF
- 2000uF
- 20mF

5.4 Performing a Measurement

1. Ensure the capacitor to be measured is fully discharged before connecting it to the meter.
2. Connect the test leads to the capacitor terminals.
3. Read the capacitance value displayed on the LCD.

5.5 Data Hold Function

Press the "HOLD" button to freeze the current reading on the LCD. Press it again to release the hold and resume live measurements.

5.6 Backlight Function

Press the "Backlight" button to illuminate the LCD display. This is useful in dimly lit environments. Press it again to turn off the backlight.



Image 5.2: The GOLDCHAMP GC-36D Digital Capacitance Meter with its backlight activated, enhancing visibility of the LCD

display in low-light conditions.

6. MAINTENANCE

6.1 Cleaning

Wipe the meter with a dry, soft cloth. Do not use abrasive cleaners or solvents. Ensure no moisture enters the device.

6.2 Battery Replacement

When the battery indicator appears on the display, replace the 9V battery as described in Section 4.1. Remove the battery if the meter will not be used for an extended period to prevent leakage.

6.3 Storage

Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. Keep it out of reach of children.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display or dim display	Low or dead battery	Replace the 9V battery.
Inaccurate readings	Incorrect range selected, un-zeroed meter, or faulty capacitor	Select appropriate range, perform zero adjustment, ensure capacitor is discharged and functional.
"OL" or Overload displayed	Capacitance value exceeds selected range	Select a higher measurement range.

8. SPECIFICATIONS

Feature	Specification
Display	1999 counts
Power Supply	9V (6F22x1) battery
Capacitance Range	200pF, 2000pF, 20nF, 200nF, 2uF, 20uF, 200uF, 2000uF, 20mF
Accuracy	±0.5% (200pF to 200uF), ±2.0% (2000uF), ±4.0% (20mF)
Dimensions (L x W x H)	14.3 x 7.5 x 3.2 cm
Weight	200 grams
Safety Standards	UL 61010-1, IEC 61010-2-030

9. WARRANTY AND SUPPORT

The GOLDCHAMP GC-36D Digital Capacitance Meter comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact GOLDCHAMP customer support. If you encounter any issues or require technical assistance, please reach out to the seller or manufacturer directly for support.

© 2023 GOLDCHAMP. All rights reserved.