

Cen-Tech Seven Function Digital Multimeter Ball Bearings Replacement

This guide will show how to locate and replace the ball bearings used to allow the dial to glide.

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INTRODUCTION

If the dial cannot spin then it is likely that the ball bearings are missing or not properly lubricated.



TOOLS:

- Phillips #0 Screwdriver (1)
- Flathead 3/32" or 2.5 mm Screwdriver (1)



PARTS:

- Penetrating Lubricant (1)
- 2mm Ball Bearings (1)

Step 1 — **Position Device**



 Place the meter face down, and the back panel and screws can be seen.

Step 2 — Remove Back Panel Screws





Unscrew the two 9mm screws on the back panel using a #0 Phillips screwdriver.

Step 3 — Remove Back Panel



- Remove the back panel of the device by lifting upward.
- Remove the battery from the meter before continuing.

Step 4 — Unscrew Motherboard





• Remove the four 7mm Phillips screws holding the circuit board in place.

Step 5 — Remove Motherboard



- Gently lift the circuit board away from the device casing.
- Remove the battery after removing the back cover to reduce the chances of short-circuiting the circuit board.

Step 6 — Locate Dial



 The dial is located in the central part of the device.

Step 7 — Remove Dial



- Carefully remove dial from device by lifting upward.
- Clean existing dial or replace if necessary.
- Take care not to lose the small ball bearings.

Step 8 — Locate and Remove Ball Bearings



- Locate ball bearings. Carefully remove.
- If both ball bearings are still present, try lubricating ball bearings with multi-use lubricant.
- If one or both ball bearings are missing, simply replace.

To reassemble your device, follow these instructions in reverse order.