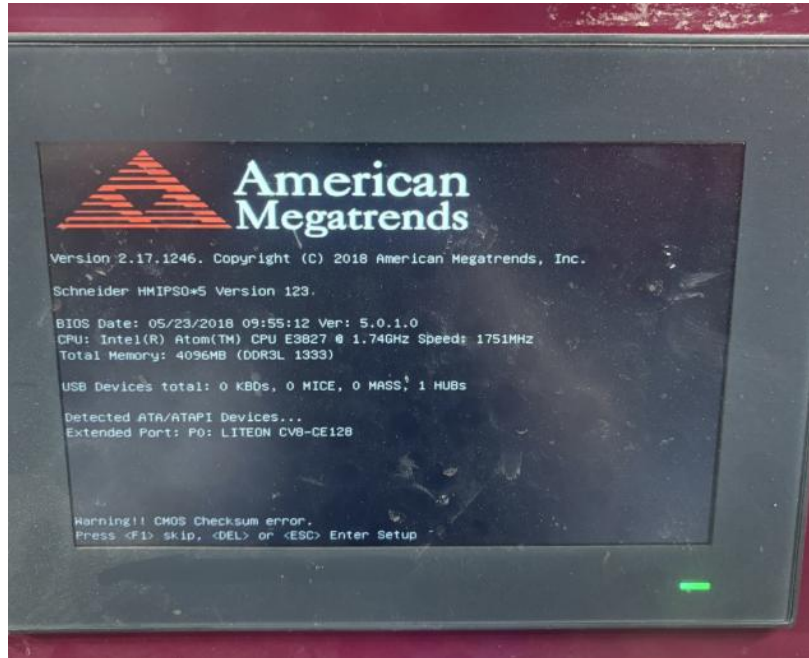


## CMOS Checksum error

This article explains what to do if you encounter the machine start-up error known as "**Warning!! CMOS Checksum Error.**"



*Picture of the error:*

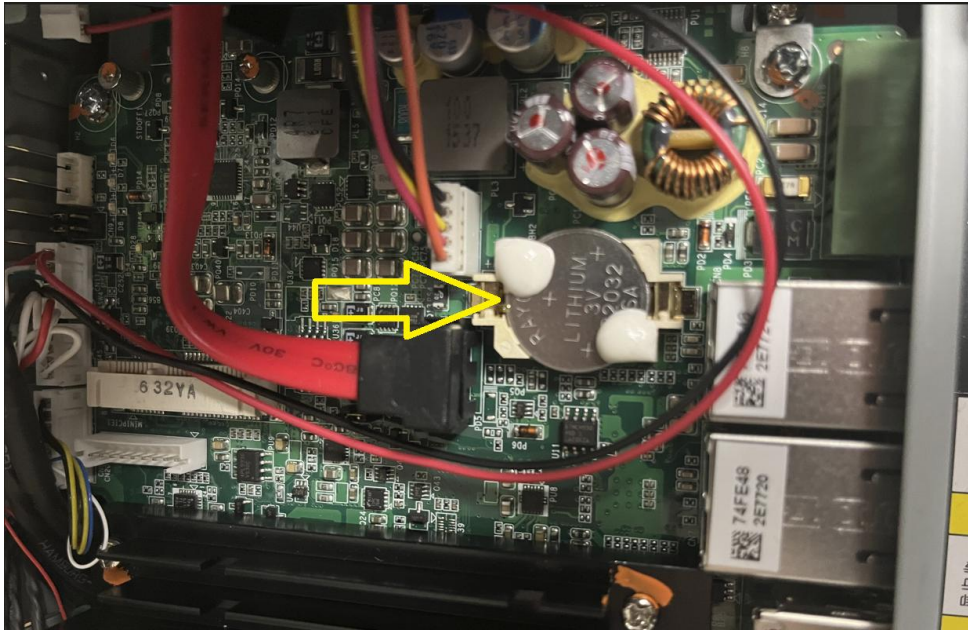
### **Here's why:**

- The CMOS battery (usually a small coin-cell battery like CR2032) powers the BIOS memory so it can remember settings when the computer is turned off.
- If the battery is dying, those settings get lost, and the checksum check fails.
- When you turn the PC back on, the BIOS defaults load, and you see the error.

### **How to Replace the CMOS Battery**

#### **Tools & Items You'll Need**

- New CMOS battery (most PCs use **CR2032** coin-cell but check your old one first).
- Small screwdriver (for desktop case screws).
- Anti-static precautions (touch metal before handling components).



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## Step 1 – Power Down & Unplug

1. Shut down your PC completely.
2. Unplug the power cable from the wall.

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## Step 2 – Discharge Static

- Touch a metal part of the case before touching internal components.  
(This prevents static electricity damage.)

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## Step 3 – Open the Case

- **Desktop:** Remove side panel screws and slide off the panel.

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## Step 4 – Locate the CMOS Battery

- Look for a **silver coin-shaped battery** on the motherboard — about the size of a small coin.
- It will be lying flat in a circular.

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## Step 5 – Remove the Old Battery

- Push the small retaining clip gently away from the battery.
- The battery should pop up slightly remove it carefully.

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## Step 6 – Insert the New Battery

- Place the new battery in the slot with the **positive (+) side facing up**.
- Press gently until it clicks into place.

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## Step 7 – Reassemble & Power On

1. Close the case and reconnect cables.
2. Power on the PC.