

Understood. Since your bootloader is locked and you want to keep the official Chinese ROM, you cannot use any PC-based flashing or formatting tools. [1]

The deep underlying bug is that **the stock Chinese ROM is rejecting your hardware certificates** because it sees traces left behind from the previous custom ROM. Because it cannot verify the hardware tokens, it loops on the PIN setup page and completely blocks the system updater from executing file extractions.

Since you have already spent a whole day on this, here is the final, definitive triage to get a working phone right now without wasting more hours:

1. Bypassing the PIN/Lock Setup to Use the Phone

You must bypass the broken security prompt entirely during the setup wizard to reach the home screen:

1. Turn off your phone, then hold **Volume Up + Power** to enter the Mi Recovery main menu. [1]
2. Choose **Wipe Data -> Wipe All Data -> Confirm** to clear out temporary configuration blocks. [1]
3. Reboot, and **do not connect to Wi-Fi** or insert a SIM card during the setup wizard.
4. Advance through the pages. When you reach the **"Set Screen Lock"** page, **do not press PIN**. Look at the bottom or corner of the screen and press **Skip (跳过)**.
5. Finish the setup. This will take you directly to the home screen. Your phone will be fully usable, but you must run it **without a lock-screen password or fingerprint** for now.

2. Why the Update Fails (and the Only True Fix)

The reason your software update downloads but says "try again later" is exactly the same: the system updater application cannot securely verify the update package signature because the phone's secure keystore (TEE) is corrupted and uninitialized.

Because your bootloader is locked, you are strictly banned from using low-level formatting tools over USB to repair the corrupted `persist` data partition. There are only two ways this security chip can be fixed: [1]

- **The Official Route:** You must successfully navigate the Chinese Mi Community app requirements on your phone to get official unlocking permission, link the account, wait out the 168-hour timer, unlock it via PC, and then flash a factory-clean `persist.img` via modern Fastboot. [1, 2]
- **The Quick Commercial Route:** You can find an online repair shop or technician on a remote service forum (like XDA or Telegram channels) who possesses an **Authorized Xiaomi EDL (Emergency Download Mode) Account**. They can connect to your PC via software like TeamViewer and use an authorized service tool to force-flash a factory-fresh stock state onto your phone over the locked bootloader via USB. [1]

If you are too tired to mess with it further today, perform the **Wipe All Data** and use the **Skip** button to at least have a functional, password-free phone for the week. [1, 2]

If you decide to look into a solution later, let me know if you want guidance on **how to safely find an authorized EDL technician** online to unbrick the security chip!

My personal addendum:

After having made the clean install of the Chinese ROM, then in second step locked the bootloader successfully, while starting with the initial configuration I couldn't register nor a PIN code (4 or 6 digits), nor a pattern, and therefore couldn't register fingerprints neither. All above my personal addendum have been indications obtained by AI...

In fact, I continued without these steps and then registered a new Xiaomi Account, then I went into the Settings and had to activate "Basic Google services", register my Google account. It immediately asked me to create a PIN, or pattern, which... surprise surprise... worked and then I could register several fingerprints.

That means that the activation of Google Services (even basic) do overwrite or rectify the security checks of the Android system and since then, even if I log out from both accounts, Xiaomi and Google, I still can cancel the PIN, and therefore fingerprints, but afterwards create new ones!

Result: I have managed to eliminate the xiaomi.eu ROM, relocked the bootloader, and after activating the Basic Google Services I have now in my hands a perfectly working device with Chinese Original ROM.