How to Use the HP Programming Cable

A. Important Information

- In this guide you will find the instructions on how to use the HP Programming Cable for HP15c, HP12c and HP10bII+ calculators.
- This cable follows the USB protocol and must be connected to the POGO connector located inside the battery compartment on HP15c CE, HP12c (only version with batch code "G1**P***000*)", and HP10bII+ calculators.
- **The cable does NOT work on previous HP calculators (HP15c LE, HP12c prior to 2015, and a new version with batch code "**C1**GP***000***", HP20b, HP30b),** even if they have the same POGO connector. These other models follow a serial RS232 protocol, have different functions assigned to each pin and different voltage levels. It also cannot be converted to be used with these calculators because it is missing the IC that handles the voltage levels and the protocol. **Operating this cable with HP15c LE, HP12c prior to 2015, HP20b or HP30b may destroy the calculator!**

B. Before Connecting

- Computer specifications: **Windows 10** and Later or **Mac PC with Windows installation** (BootCamp or Parallels; other virtualizations have not been tested).
- Download and install SAM-BA software (**recommended to use the Version 2.18**).
- SAM-BA donwload link:https://www.microchip.com/en-us/development-tool/sam-ba-in-system-programmer#Software

C. Connecting the Calculator

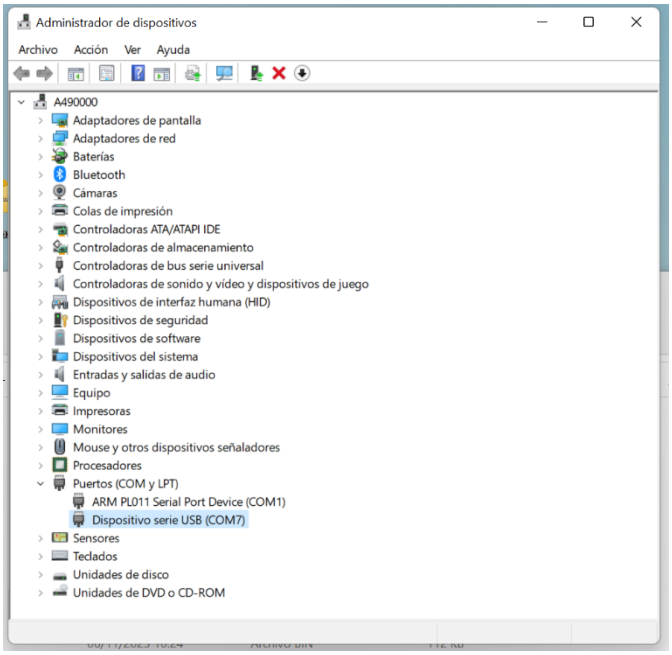
Warning: *Connecting your calculator will erase all data in the user area: programs, data, matrices, memory configuration; all will be reset to default.*

Disclaimer: *Although the procedure has been tested and so far, no calculator has been bricked, MORAVIA Consulting spol. s r.o. is not responsible for any damage that happens to the calculator!*

1. Open the calculator battery compartment with a small-size screwdriver.
2. Connect the Programming Cable to the POGO connector. Make sure you are entering the cable in the right direction. Enter it with a subtle push on both sides of the cable connector with your fingers.
3. Connect the other side of the cable (USB-A) to your computer (in case you have only USB-C connector on your computer, you can use the USB-A to USB-C adapter).
4. To disconnect the cable, make sure to always press on the side wings with your fingers to loosen the grip.

D. Putting the Calculator in the Programming Mode

1. Turn on the calculator by pressing the “ON” button.
2. Press and hold the “ERASE” button on the cable.
3. Press and release the “RESET” button.
4. Release the “ERASE” button (***Important:*** *the buttons are in reverse order compared to the original HP15c LE cable*).
5. A new COM port called Bossa Program Port should now appear in the Windows Device Manager – Ports (COM & LPT) (COMx:).



E. Returning to the Normal Mode

1. Press “RESET” button on the cable (You can also poke a paperclip into the RESET hole in the back of the calculator).
2. Press “ON” on your calculator.
3. "pr error" appears on the screen.
4. Press any key to start using the calculator.