

Holmes Hobbies CrawlMaster Controllers use AM32 firmware to run. It is an open source firmware that excels in rock crawling, with feature development supported by Holmes Hobbies.

Programming is accomplished by the “configurator” and a USB device. The configurator is available from AM32.ca or our file repository found here  Holmes am32 program and drivers. You can use AM32.ca or holmes.am32.ca website for direct programming. In the future, bluetooth and wifi direct programming options will be available.

1. download the USB drivers and configurator files, configurator files will download as .zip
2. Install the USB driver
3. Move zipped configurator file to an accessible location, such as desktop
4. Unzip configurator files (do not move any files from the folder afterwards)
5. Open configurator EXE by right click and run as administrator
6. Plug in USB programmer, you should hear the computer chime
 - a. If no chime, ensure your USB cable is for data and not only charging
7. Select COM port in the configurator program, check “direct connection” box, connect to USB device
8. Plug in RX wire to the USB programmer noting polarity (GND is black, SIG is white)
9. Power up the ESC with a battery
10. Click M1 button to connect to ESC
11. If it will not connect, disconnect from USB device and repeat process from step 6

—Alternatively, install usb driver and use am32.ca or holmes.am32.ca for programming from step 6

Video tuning guide: [am32 Programming for Crawlers](#)

Our ESCs come tuned for best performance in nearly all installations and motor combinations, but if you want to change the settings then our video guide can help!

updating to 2.19 firmware with hold brake

-use 1.82 configurator or the holmes.am32.ca website to upload new 2.19 firmware onto your device

-use 1.93 configurator to adjust the settings

Notes

- settings may change with the firmware update.**
- reset settings to default (especially if you have 0xFF error)**
- you cannot use old 1.82 configurator with new firmware**
- holmes.am32.ca has crawler specific defaults**

***if you experience hesitation at low throttle, use 1.93 configurator or website to reset to defaults and resave settings. Resetting defaults will fix almost all issues of jumpy throttle.**