

# FIRMWARE UPDATE TUTORIAL

## RGO ONE TRANSCEIVER

WRITTEN BY AND FOR KENT TRIMBLE, K9ZTV  
(SO I COULD REMEMBER HOW TO DO IT)

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- A) I wrote this for my own benefit; Boris thought it would be helpful on his webpage*
- B) Whenever [x.xxx] appears, insert the firmware version to be installed*
- C) The following steps work on both my Windows 7 and Windows 10 machines using Firefox*
- D) Various Windows versions may handle steps differently*
- E) Resist the urge to update AVRDUDESS. Boris prefers version 2.8*

Make sure the radio is off and no cable is yet connected.

Create a directory in your computer's Local Disk (C:) called RGO ONE UPDATES.

Go to: [www.lz2jr.com/blog/](http://www.lz2jr.com/blog/)

Click on DOWNLOADS (at the top).

Click on FIRMWARE UPDATES.

Scroll down to **FW\_x.xxx** in green ink and **right click** on it.

Click on "Save Link As"

Be sure "ver.x.xxx.rar" is in the File Name box (at the bottom) and RGO ONE UPDATES is the intended target (at the top), and then click on SAVE.

Go back to DOWNLOADS.

Click on FIRMWARE UPDATES and click on "**FLASH program and instructions**" in green ink (first sentence).

Under the heading REQUIREMENTS, **right click** on the green colored "**AVRDUDESS 2.8 and RGO ONE preset file.**"

Click on "Save Link As"

Be sure that "SW-update-files.zip" is in the File Name box (at the bottom) and RGO ONE UPDATES is the intended target (at the top), and then click on SAVE.

At this point you should have two files in your RGO UPDATES directory:

SW-update-files.zip  
ver.x.xxx.rar

Using an extraction (unzipping) program of your choice (I use WinRAR), go to your RGO ONE UPDATES directory and double click on "ver.x.xxx.rar" and extract all files to the RGO ONE UPDATES directory (you may have to tell it that is where you want the files extracted).

Close your extraction program (so you don't get confused by all the open windows).

In the RGO ONE UPDATE directory, double-click on "SW-update-files.zip" and extract all files to the RGO ONE UPDATE directory.

Close your extraction program.

At this point these files need to be in your RGO UPDATES directory:

FP\_FWx.xxx.hex  
FW\_x.xxx release notes.txt  
MB\_FWx.xxx.hex  
presets.xml  
set-up-AVRDUDESS-2.8.exe

In the RGO ONE DIRECTORY, **double click** on "setup-AVRDUDESS-2.8.exe" and run the setup wizard. At the end of the wizard, make sure "Launch AVRDUDESS" is enabled and click on FINISH.

If AVRDUDESS wants to update, click on SKIP

The AVRDUDESS page will appear which controls the actual downloading process.

Click on the "Manager" bar on the right side of the screen

Now . . .

- 1) If "rgo one" and "RGO BASE" appear in the Preset Manager window, you're home free. DO NOT DELETE THEM. Close the Preset Manager window.
- 2) If "rgo one" and "RGO BASE" do not appear in the Preset Manager window, delete all extraneous files (if there are any) except "default." On that same page, click on the "Import" button (at the bottom), find "presets.xml" in your RGO ONE UPDATE directory, and double click it.
- 3) If successful, "rgo one" and "RGO BASE" will now appear in the Preset box of the AVRDUDESS page (right side of screen above MANAGER).

Click the down arrow in the "Presets" box and select "rgo one."

Click the "Flash" down-box immediately to the left (square box with 4 dots).

In the RGO ONE UPDATES directory, double click the "FP\_FWx.xxx.hex" file.

With radio still off, connect the USB cable between PC and radio.

Connect the power cable to the radio.

Turn radio on. "PC" appears in upper right of radio's display if the connection is good.

In AVRDUDESS, click the down-arrow on "Port" (upper left side of screen above Flash) and select an appropriate com port. If the wrong one is selected, the black screen at the bottom will indicate a refusal when you start the download. If this happens, go back to the com port drop-down and select another one (on mine there are usually only two choices and one always works).

Turn radio off.

While holding ENCODER 3 (second knob from right), turn radio on.

Display will be dark but the red TX/ALC will glow.

In AVRDUDESS, click "Program!" (bottom left of screen).

The first of the two updating modules will proceed with all the action visible in the black screen at the bottom; radio will restart after a couple of minutes.

**DON'T MESS WITH THE COMPUTER OR THE RADIO DURING UPDATING AND DON'T SQUIRM IN YOUR CHAIR TO GENERATE STATIC ELECTRICITY**

If successful, radio will restart and turn on automatically.

At the radio, go to Menu 38 and turn the main dial to "YES."

Exit the menu.

Cycle radio off, then on; ENCODER 3 LED will blink.

In AVRDUDESS, click on "Presets" down arrow (right side of screen) and select "RGO BASE."

Click the FLASH down-box (square with 4 dots) immediately to the left of the PRESETS box.

In the RGO ONE UDATES directory, double click the "MB\_FWx.xxx.hex" file.

Click "Program!" (bottom left of screen).

The second of the two updating modules will proceed.

When updating is finished and "Thank you" appears, go to Menu 38 and turn Main Dial to NO.

Exit Menu

Turn radio off and remove the USB cable.

Turn radio back on.

Go to MENU 37 and confirm that firmware version is x.xxx (the version you were trying to install) was successful.

Done!