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# Saguaro Construction Note #11

04/18/2023

**Software Update – Rev A.01.05**

This software release has this improvement:

1. Added AGC On/Off setting so that built-in AGC in the SDR can be used
2. Added two new buttons at the bottom of the screen – AGC On/Off and Attenuator settings. Just click the button multiple times to select the various options instead of turning the tuning knob.
3. Removed the above settings from the first button, which is now just Muted/Receiving.

To install:

1. Save the zip file to a convenient place on a PC (not Saguaro)
2. Extract the three files (sw\_rx.py, sw\_rx\_globals.py and stream\_sdr\_to\_audio.py)
3. Copy the three files to a flash drive
4. Eject the flash drive
5. Turn on Saguaro
6. Exit the Saguaro program if it is running by clicking “Exit”, then “No”, which takes you to Linux
7. Insert the flash drive into a spare USB port on your Saguaro
8. Linux will see that you have inserted a flash drive and ask you if you want to open it in File Manager. Click Yes
9. In File Manager, navigate to the media you inserted, locate the three files on that drive, highlight all three, right click and select “Copy”
10. In File Manager, navigate to home/dzkit/Saguaro. You should see the same three files (sw\_rx.py, sw\_rx\_globals.py and stream\_sdr\_to\_audio.py)
11. Rename the existing files by adding \_orig to the names, e.g., sw\_rx\_orig.py
12. Paste the new files in that same folder
13. Exit the File Manager
14. Click the “Eject” symbol on the top menu bar
15. When you see the “safe to remove” message, remove the flash drive
16. Start the Saguaro program by clicking the raspberry, then Other, then Saguaro
17. The program will also continue to start automatically when you turn power on.