Upgrade Receiver Firmware



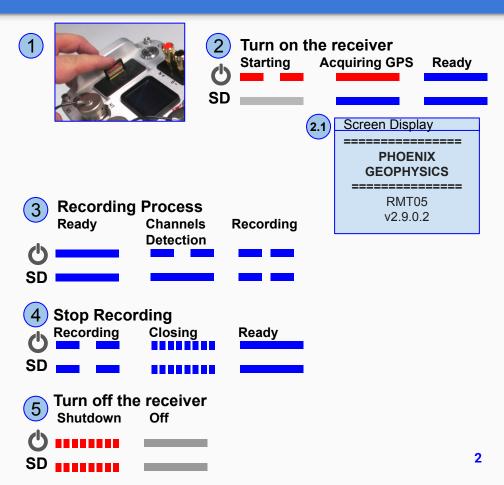
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Testing before an upgrade

Make sure the battery that the receiver is using is **fully charged** and the cables are properly connected. Run a quick recording to note the current receiver OS version and to make sure that the receiver is working as expected before upgrade.

- 1. Insert an SD Card for recording (>= 64GB, formatted as exFat)
- 2. Turn on the receiver
- 2.1. Review the OS version
- 3. Run a quick data recording test (2 minutes)
- 4. Stop the recording
- 5. Turn off the receiver

*This will help to keep a record of the current OS version that the receiver has prior to upgrade



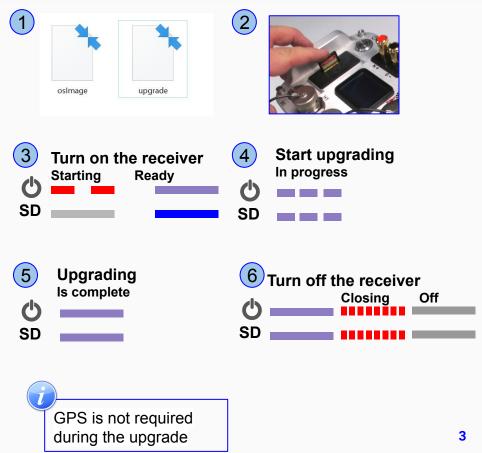
Upgrading the Receiver Firmware

- 1. Download "osImage" and "upgrade" files from http://phxgeo.ca/releases/LATEST/Receiver%20Firmware
 - There are two files. In Chrome/ Edge / IE, make sure to save the file "upgrade" without any extension

*Don't save file name with any extension (.tar)

- \circ Using Firefox, the file will keep its name as "upgrade"
- 2. Put both files on a 32GB or smaller SD card (must be FAT32 formatted) https://www.sdcard.org/downloads/formatter/
- **3.** Put the SD card in receiver and power on
 Wait for power button to be violet, and SD card button turn blue
- **4.** Briefly push and release the **Power button** to start upgrading
 - Both LEDs will blink violet, indicating upgrade is in progress
- 5. Wait until both LEDs are solid violet (~15 minutes)
- 6. Push and hold power button for >5 seconds to power off the receiver

 \circ After power off unplug the battery from the receiver



After Upgrade

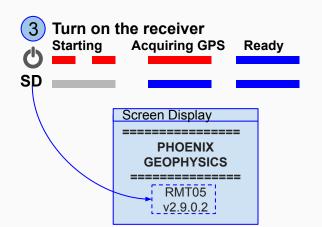
 The receiver will create an upgrade.log file and a receiver_backup.serial_number file in the upgrade SD card if necessary.

* **Do Not Delete** any of these files created by the receiver until the upgrade process is verified to be complete

- **2.** Remove the Upgrade card, and insert a regular recording SD card (>=64 GB).
- **3.** Connect the battery and turn on the receiver and verify that the upgrade process was completed and review the OS version







Troubleshooting

Problem:

 SD card not detected in receiver due to format/SD hardware issues. SD led will be blinking RED and screen will display NO SD card error message

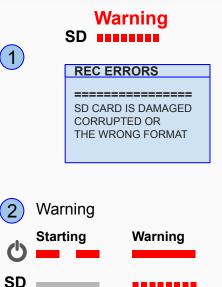
Solution:

 \circ Make sure the SD card is of the proper recommended type

 \circ For more information see Troubleshooting manual

Problem:

- When the upgrade files oslmage and upgrade are not detected or doesn't have the proper format then receiver will ignore those files
 Solution:
 - Make sure that the files oslmage and upgrade are downloaded and copied to the SD card properly with no extensions, and that the card being used for the upgrade is formatted as FAT32



Troubleshooting

Problem:

 Both LEDs blinking fast in purple color. This could indicates that the upgrade file is not proper or the receiver is not supported by this upgrade file

Solution:

- Turn off the receiver
- Review the upgrade.log file in the SD card (if necessary download and copy the files to the SD card again)

Problem:

4. Power LED is blinking fast RED after receiver was powered

on

Solution:

 Check the upgrade card for file with similar format receiver_backup.serial_number.

For example

- If the receiver serial number is 10111, the file name will be receiver_backup.10111.
- If the file is available, then perform the OS upgrade procedure again, using the same osUpgrade card
- If no files were present on the SD card contact Phoenix support.

- 3 Both button blinking purple color Shutdown
 -)
- SD

Power LED blinking fast Red

Shutdown

SD



Please check out the <u>FAQs</u> <u>https://phoenixgeophysics.freshdesk.com/</u> **Or email us at:** support@phoenix-geophysics.com