

# Upgrade Receiver Firmware



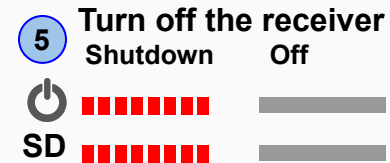
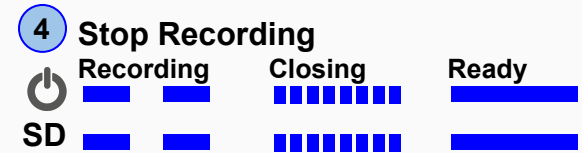
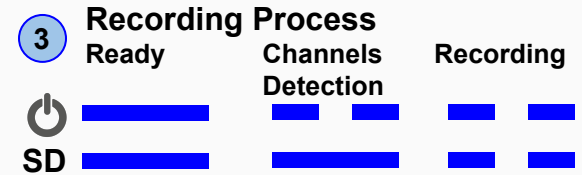
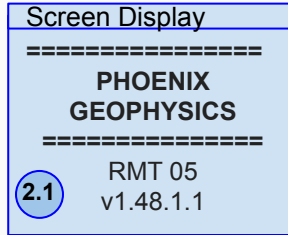
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# Before beginning

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 the **SD Card**
2. Turn on the **receiver**
  - 2.1. Review the OS version
3. Quick recording data test (2 minutes)
4. Stop the recording
5. Turn off the receiver

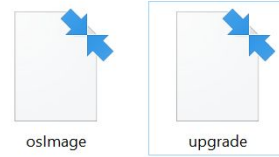
*\*This will help to keep a record of the current OS version that the receiver has prior to upgrade*



# Upgrading the Receiver Firmware

1. Download "**osImage**" and "**upgrade**" files from <http://empower.phoenix-geophysics.com/releases/LATEST/Receiver%20Firmware/>
  - Chrome/ Edge / IE, save the file name as "upgrade" *\*Don't save file name with any extension (.tar)*
  - Using Firefox, the file will keep the filename as "upgrade"
2. Put both files on a 32GB or smaller SD card (must be FAT32 formatted)
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

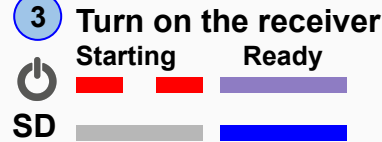
1



2



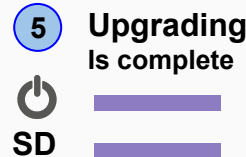
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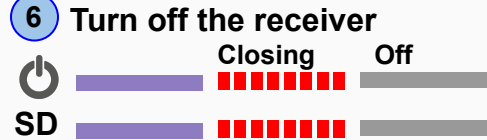
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5



6



i

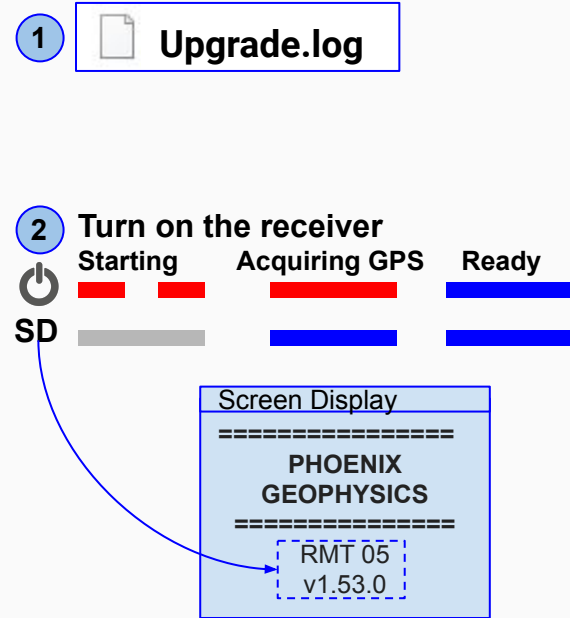
GPS is not required during the upgrade

# After Upgrade

1. 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. Turn on the receiver and verify that the upgrade process was completed and review the OS version



# Troubleshooting

## Problem:

1. 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:

- Make sure the SD card is of the proper recommended type
- For more information see Troubleshooting manual

## Problem:

2. When the upgrade files **osImage** and **upgrade** are not detected or doesn't have the proper format then receiver will ignore those files

## Solution:

- Make sure that the files **osImage** and **upgrade** are downloaded and copied to the SD card properly

1

**Warning**  
SD ■■■■■■

```
REC ERRORS
=====
SD CARD IS DAMAGED
CORRUPTED OR
THE WRONG FORMAT
```

2

Warning

	<b>Starting</b> ■■■ ■■	<b>Warning</b> ■■■■■■■
SD	■■■■■■■	■■■■■■■

# Troubleshooting

## Problem:

- Both LEDs blinking fast in purple color. This could indicate 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*)

- Both button blinking purple color  
**Shutdown**



**SD**

## Problem:

- 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 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 in SD card contact Phoenix support.

- Power LED blinking fast Red  
**Shutdown**



**SD**



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