

## FAQ GMS-GPS Signal Check

### 1. Introduction

- This procedure describes how to check on a GMS-GPS if it has power and GPS signal.
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### 2. Required Tools

- GMS-GPS connected to running GeoSIG Recorder (e.g. GMS or CR series)
  - Phillips (Cross) screwdriver size 2
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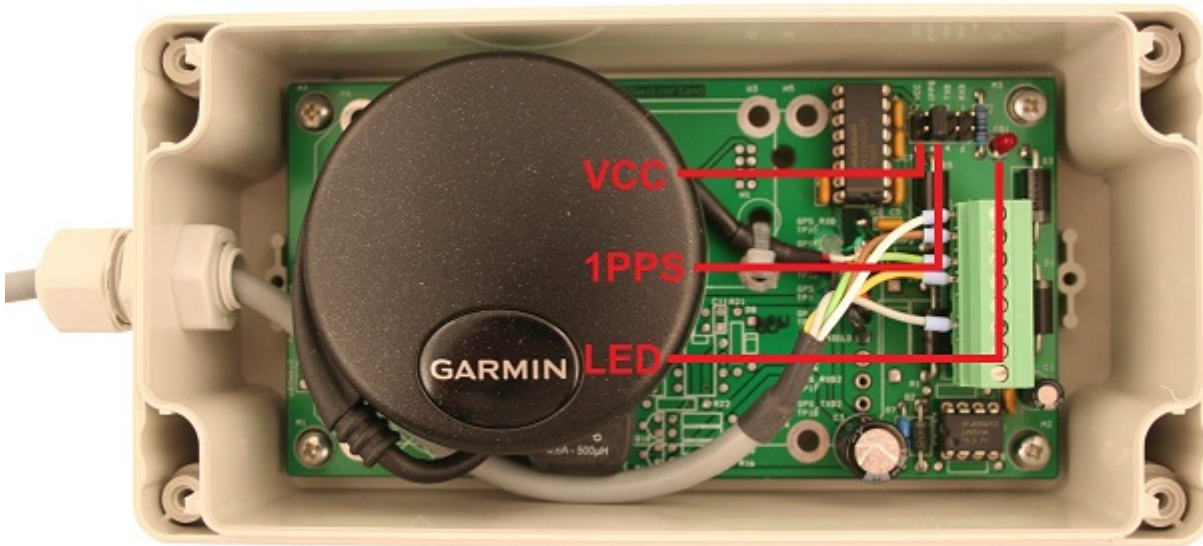
### 3. Disassembly

- Remove the cover of the GMS-GPS by unscrewing the 4 Phillips screws (some housings are with spring-loaded screws, push and turn 90° to open these)



### 4. LED description

- The PCB is equipped with a red LED. The LED will flash according to the jumper position of JMP1



- Jumper position **VCC**  
Continuously on if the GMS-GPS is powered.  
If the LED is off, check if the GMS-GPS is connected to the recorder and make sure the recorder is running.  
On some recorders, the power for the GPS can be disabled. Further information can be found in the User Manual of the relevant recorder.
  - Jumper position **1PPS** (default)  
Flashing with a frequency of 1 pulse per second if there is GPS signal.  
For a good GPS signal, at least 75% of the sky should be visible and not blocked by walls, trees or windows.  
After powering the GPS, it can take up to 20 minutes to receive a good signal.
  - Jumper position **TXD**  
Transmit signal of GPS (flashing irregularly, can appear as continuously flashing)
  - Jumper position **RXD**  
Reception signal from instrument (only active during configuration)
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