



**Mars Labs**  
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September 3, 2015

Document # SB-2329

## Service Bulletin

### Mini-Recorder Firmware v0.34.23

**Applicability:** This release applies to Titan High Speed Mini-Recorders with or without an Internal Digital Pod.

**Description:** The Titan High Speed v0.34.23 firmware incorporates the following feature enhancements and bug fixes:

1. Improved the throughput of devices that include an Internal Digital Pod
2. Corrected issues affecting positive and negative digital gains (256 & 512)
3. Corrected a data synchronization issue that occurred when Mini-Recorders with different firmware versions (v0.34.18 and earlier, and v0.34.20 and later) were connected to a Titan CPU. The issue involved a 6-scan skew between devices running in High Speed mode. The skew occurred the first time the system was run after power up; it did not occur on subsequent runs.
4. Corrected an issue introduced in v0.34.20 dealing with high speed scans over a serial connection (RJ45 Comm Port).

**Recommendation:** This release is recommended for users of Titan High Speed Mini-Recorders that require GPS sync, negative gains, or Digital Pod functionality. It is also recommended for any High Speed device with v0.34.20 or later firmware installed.

**Update:** The Titan High Speed Firmware requires the use of the Titan Programmer. The Titan Programmer utility is built into TCS (selected in the TCS 'Device/Advanced' menu). A stand-alone version of the Titan Programmer is also available as a download from the Mars Labs Knowledge Base.

**Help:** For additional information or assistance, please contact:

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