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Modification Description for FCC ID: DO4LIB24 / Request for adding the new family variant SX-Wide

The most significant hardware change with FCC/CE implications is the change of C36 from 220 pF to 100 pF and C39 from 220 pF to 82 pF. These parts are the output capacitors on low-pass filter of TX1 and TX2, respectively. It is possible that the level of harmonics from the fundamental has increased due to these changes.

We also added a capacitor from each of the +/- light outputs (J2-1, J2-3) to ground. This could (should) improve the effectiveness of the lights as a shorted turn.

We have also added a separate single-turn (shorted turn) loop to the Liberty PX and QX antennas. This added loop could affect the far field cancellation of the antenna,

We have made other less significant changes such as a sync bypass relay that connects the SYNC IN jack to the SYNC OUT jack when power is lost on the board and changes to the sounder voltage regulator.

In addition to the above, we declare that the model SX-Wide (SX-Wide PAB / SX-Wide SAB) is a new variant of the Liberty TR4024 family. It is technically identical to the existing and already certified variants. Only the frame is different.

Thorofare, NJ, date 07/06/04  
place of issue

Bauphe A. J. J.  
Seal and signature of applicant